

# Abbreviations and Acronyms

401 Cert.	Clean Water Act Section 401 Water Quality Certification	DOI	United States Department of Interior
ACHP	Advisory Council on Historic Preservation	DS	Determination of Significance (SEPA)
ADA	Americans with Disabilities Act	DSI	Detailed Site Investigation
AHB	Area Habitat Biologist	DWR	Dangerous Waste Regulations
AKART	All known, available, and reasonable methods of prevention, control, and treatment	EA	Environmental Assessment
ASTM	American Society for Testing and Materials	EAO	Environmental Affairs Office (WSDOT)
ATMS	WSDOT's Automated Training Management System	EAP	Emergency Action Plan, appendix to SPCC Plan
BA	Biological Assessment	Ecology	Washington Department of Ecology
BE	Biological Evaluation	ECS	Environmental Classification Summary
BFE	Base Flood Evaluation	EDNA	Environmental Designation for Noise Abatement
BIA	Bureau of Indian Affairs	EFH	Essential Fish Habitat
BLM	Bureau of Land Management	EILS	Environmental Investigations & Laboratory Services Program
BMP	Best Management Practice	EIS	Environmental Impact Statement
BO	Biological Opinion	EO	Executive Order
BPJ	Best Professional Judgement	EPA	Environmental Protection Agency (Federal)
CAA	Clean Air Act (Federal), 42 USC Section 7901	EPF	Essential Public Facilities
CAAA	Clean Air Act Amendments	ERS	Environmental Review Summary
CAO	Critical Areas Ordinance	ESA	Endangered Species Act
CAPP	County Arterial Preservation Program	ESU	Environmentally Significant Unit
CARA	Critical Aquifer Recharge Area	FAA	Federal Aviation Administration
CAWA	Clean Air Washington Act	FAPG	Federal Aid Policy Guide
CBRA	Coastal Barrier Resources Act	FCAAP	Flood Control Assistance Account Program
CE	Categorical Exclusion (NEPA) or Categorical Exemption (SEPA)	FEIS	Final Environmental Impact Statement
CEQ	Council of Environmental Quality (Federal)	FEMA	Federal Emergency Management Agency
CERCLA	Comprehensive Environmental Response, Compensation; and Liability Act. 42, USC Section 9601.	FHWA	Federal Highway Administration
CFP	Capital Facilities Plan	FIRM	Flood Insurance Rate Map
CFR	Code of Federal Regulations	FMP	Fisheries Management Plan
CHWCP	Construction Hazardous Waste Contingency Plan	FONSI	Finding of Non-Significant Impact - (NEPA)
CMAQ	Congestion Mitigation and Air Quality Improvement Program	FPPA	Farmland Protection Policy Act
CMZ	Channel Migration Zone	FTA	Federal Transit Administration
CO	Carbon Monoxide	FWA	Federal Wilderness Act
COE	U.S. Army Corps of Engineers	GHPA	General Hydraulics Project Approval
CRAB	County Road Administration Board	GIS	Geographical Information System
CRS	Cultural Resource Specialist	GMA	Growth Management Act
CTED	Department of Community, Trade, and Economic Development	GSP	General Special Provisions
CW	Contaminated Waste	HC	Hydrocarbons
CWA	Clean Water Act, 33 USC Section 1251	HGM	Hydrogeomorphic Model
CZM	Coastal Zone Management	HLP	Highways and Local Programs
CZMA	Coastal Zone Management Act	HMTA	Hazardous Material Transport Act, 49 USC Section 1803
dB	decibel	HOV	High Occupancy Vehicle
dba	A-weighted decibels	HPA	Hydraulics Project Approval
DCE	Documented Categorical Exemption	HRM	Highway Runoff Manual
DEIS	Draft Environmental Impact Statement	HSP	Highway System Plan
DNR	Washington State Department of Natural Resources	HSWA	Hazardous and Solid Waste Amendments, 42 USC Sections 268, 280, 3001
DNS	Determination of Non-Significance (SEPA).	HUD	US Department of Housing and Urban Development
DOA	U.S. Department of Agriculture	IA	Implementing Agreement or Interagency Agreement
DOH	Washington State Department of Health	IAC	Interagency Committee for Outdoor Recreation
		IDC	Interdepartmental Communication
		IDT	Interdisciplinary Team
		ISA	Initial Site Assessment

ISTEA	Intermodal Surface Transportation Efficiency Act of 1991	PS&E	Plans, Specifications, and Estimates
JARPA	Joint Aquatic Resources Permit Application	PSD	Prevention of Significant Deterioration
L&I	Washington Department of Labor and Industries	PSI	Preliminary Site Investigation
LA	Landscape Architect	PSRC	Puget Sound Regional Council
LAG	Local Agency Guidelines Manual	RAP	Rural Arterial Program
L <sub>dn</sub>	Day-night sound level	RCRA	Resource Conservation and Recovery Act, 42 USC Section 6901, 40 CFR 260-281
L <sub>eq</sub>	Equivalent sound level	REC	Regional Environmental Coordinator
L <sub>eq(24)</sub>	Equivalent sound level for a 24-hour period	RES	Real Estate Services
LOP	Letter of Permission	ROD	Record of Decision (NEPA)
LOS	Level-of-Service	RPA	Reasonable and Prudent Alternative
LUST	Leaking Underground Storage Tank	RPZ	Runway Protection Zone
MDNS	Mitigated Determination of Nonsignificance (SEPA)	RTPO	Regional Transportation Planning Organization
MHHW	Mean Higher High Water	R/W	Right of Way
MOA	Memorandum of Agreement	SAO	Sensitive Areas Ordinance
MOU	Memorandum of Understanding	SARA	Superfund Amendments and Reauthorization Act, 42 USC Section 9601-9651
MPO	Metropolitan Planning Organization	SDWA	Safe Drinking Water Act, 42 USC Section 30
MSA	Magnuson-Stevens Act	SEPA	State Environmental Policy Act
MS4	Separate storm sewer system	SHPO	State Historic Preservation Officers
MTCA	Model Toxics Control Act	SIP	State Implementation Plan
NAAQS	National Ambient Air Quality Standards	SMA	Shoreline Management Act
NAC	Noise Abatement Criteria	SMP	Shoreline Management Program
NAT	Notice of Action Taken (SEPA)	SO <sub>2</sub>	Sulfur Dioxide
NEPA	National Environmental Policy Act of 1969	SOV	Single Occupancy Vehicle
NF	National Forest	SPCC	Spill Prevention, Control, and Countermeasures
NFIP	National Flood Insurance Program	SSA	Sole Source Aquifer
NFMA	National Forest Management Act	SSP	Stormwater Site Plan
NFP	Northwest Forest Plan	STB	Surface Transportation Board
NMFS	National Marine Fisheries Service	STIP	Statewide Transportation Improvement Program
NOAA	National Oceanic and Atmospheric Association	STMs	Short-term Water Quality Modifications
NOI	Notice of Intent (NEPA)	STURAA	Surface Transportation and Uniform Relocation Assistance Act of 1987
NO <sub>x</sub>	Nitrogen Oxides	SWAP	Source Water Assessment and Protection
NPDES	National Pollutant Discharge Elimination System	SWD	State Waste Discharge
NPL	National Priority List	SWMP	Stormwater Management Plan
NRCS	Natural Resource Conservation Service	TCM	Transportation Control Measure
NTSA	National Trails System Act	TDM	Transportation Demand Management
NWP	Nationwide Permit	TEA-21	Transportation Equity Act for the 21st Century (PL 105-178), as amended by the TEA-21 Restoration Act of July 22, 1998
NWSRA	National Wild and Scenic Rivers Act	TESC	Temporary erosion and sedimentation control
O <sub>3</sub>	Ozone	TFW	Timber, Fish, & Wildlife
OAHP	Office of Archaeology & Historic Preservation	THPO	Tribal Historic Preservation Officer
OCD	Office of Community Development	TIP	Transportation Improvement Program
OEO	Office of Equal Opportunity (WSDOT)	TMA	Transportation Management Agency
OHWM	Ordinary High Water Mark or line	TMDL	Total Maximum Daily Load
OSC	Olympia Service Center	TSCA	Toxics Substances Control Act, 15 USC Section 2601-2629
OSHA	Occupational Safety and Health Act, 29 USC Sections 651 -678	TSD	Transfer, treatment, storage or disposal – types of hazardous waste facilities
OSS	On-site Sewer	TSP	Total Suspended Particulates
PBA	Programmatic Biological Assessment	UIC	Underground Injection Control
PCS	Petroleum Contaminated Soil	USDA	U.S. Department of Agriculture
PE	Project Engineer	USDOJ	U.S. Department of Justice
PFMC	Pacific Fishery Management Council	USDOT	U.S. Department of Transportation
PHS	Priority Habitat and Species	USEPA	U.S. Environmental Protection Agency
PM <sub>10</sub>	Respirable or fine particulate matter, smaller than 10 micrometers in diameter	USFS	U.S. Forest Service
PM <sub>2.5</sub>	Respirable or fine particulate matter, smaller than 2.5 micrometers in diameter	USFWS	U.S. Fish and Wildlife Service
POTW	Publicly Owned Treatment Works	UST	Underground Storage Tank
PPM	Parts per million		
PRP	Potentially Responsible Party (or Person)		

WAD	EPA/Washington State identification number for wastes regulated under the Dangerous Waste Regulations
WDFW	Washington Department of Fish and Wildlife
WISHA	Washington Industrial Safety and Health Act
WNHP	Washington Natural Heritage Program
WP	Waste Profile
WRIA	Water Resource Inventory Area
WSF	Washington State Ferries
WSPI	Wetland Strategic Plan Implementation
WTP	Washington's Transportation Plan

For a web link to *Terms of Environment: Glossary, Abbreviations, and Acronyms*, which defines in non-technical language the more commonly used environmental terms appearing in EPA publications, please see:



[http://www.epa.gov/  
OCEP/terms/intro.htm](http://www.epa.gov/OCEP/terms/intro.htm)

Click on the first letter of the word/s you want to look up under terms, then find the word/s.

## A

**Abatement** – Reduction in degree or intensity.

**Adverse Effect** – Occurs when an effect on an historic property diminishes the integrity of the property's aspects of integrity (see below). See also Determination of Effect. [Criteria of adverse Effect: 36 CFR 800.9(b).]

**Adverse Impacts** – As applied to environmental justice, may include, but are not limited to: air, noise, and water pollution and soil contamination; destruction or disruption of man-made or natural resources; destruction or diminution of aesthetic values; destruction or disruption of community cohesion or a community's economic vitality; destruction or disruption of the availability of public and private facilities and service; vibration; adverse employment effects; displacement of persons, businesses, farms, or nonprofit organization; increased traffic congestion; isolation, exclusion or separation of minority or low income individuals from the broader community; and the denial of, reduction in, or significant delay in the receipt of benefits of DOT programs, policies, or activities. Consideration shall be given to individual or cumulative effects, as appropriate.

**Advisory Council on Historic Preservation** – An independent federal agency, established under the NHPA, which: (1) advises the President and Congress on matters of historic preservation; (2) carries out Section 106

reviews; and 3) provides technical assistance in historic preservation actions.

**Affect (Verb)** – Action that may change the character of an historic property.

**American Indian Religious Freedom Act** – Requires federal agencies and their representatives to consult with native groups (American Indians, Eskimos, Aleuts, and Native Hawaiians) "to protect and preserve Native American religious cultural rights and practices." [PL 95-341, 1978; 92 Stat. 469.]

**Anadromous Fish** - Species that hatch in freshwater, mature in saltwater, and return to freshwater to spawn.

**Aquifer Recharge Area** - Area which has a critical replenishing effect on aquifers used for potable water.

**Area of Potential Effects (APE)** – The geographic area or areas within which an undertaking may cause changes in the character or use of historic properties, if any such properties exist. APE should be defined before historic properties are identified. APE is not defined on the basis of land ownership, and should be determined based upon potential direct and indirect effects. [36 CFR 800.2(c).]

**Aspects of Integrity** – The seven physical features of historic properties as they relate to properties' significance: location, design, setting, materials, workmanship, feeling, or association. See Integrity below, and National Register *Bulletin* 15, pp. 44-45.

## B

**Background Noise** – The total of all noise in a system or situation, independent of state highway traffic noise under study.

**Baffle** - Flow-deflecting structure that provides low velocity resting water for the passage of fish.

**Barrier** – A solid wall or earth berm located between the roadway and receiver location which provides noise reduction.

**Building** – A construction created to shelter any form of human activity, including animal husbandry.

**Byway** – Public road having special scenic, historic, recreational, cultural, archeological, and/or natural qualities that have been recognized as such through legislation or some other official declaration for its scenic, historic, recreational, cultural, archeological, or natural qualities.

## C

**Candidate Species** - Any species of fish, wildlife, or plant considered for possible addition to the list of endangered and threatened species. These are *taxa* for which the NMFS or USFWS has on file sufficient information on biological vulnerability and threat(s) to support issuance of a proposal to list, but issuance of a proposed rule is currently precluded by higher priority listing actions.

**Carbon Monoxide (CO)** – A by-product of the burning of fuels in motor vehicle engines. Though this gas has no color or odor, it can be dangerous to human health. Motor vehicles are the main source of carbon monoxide, which is generally a wintertime problem during still, cold conditions.

**Categorical Exclusion/Exemption** – An action that does not individually or cumulatively have a significant environmental effect, as defined in NEPA/ SEPA regulations, and is classified as excluded (NEPA) or exempt (SEPA) from requirements to prepare an Environmental Assessment/Checklist or Environmental Impact Statement.

**Certified Historic Structure** – A depreciable building or structure which is either listed in the National Register or located in a National Register Historic District, or in a state-

or local-designated historic district, and certified by the Secretary of the Interior as being of historical significance to (i.e., a contributing element in) the district. [36 CFR 67.2.]

**Certified Local Governments (CLGs)** – Local government historic preservation entities participating in the national historic preservation program, certified by the SHPO. Existence may afford property owners in the CLG jurisdiction the opportunity to participate in local (state, county, etc.) preservation incentives (e.g., tax incentives).

**Certified Rehabilitation** – On a certified historic property (see definition), work that is certified by the Secretary of the Interior as being consistent with the historic character of the property and, where applicable, with the district in which it is located. [36 CFR 67.2.]

**Community Enhancement Areas** – Features such as roadside parks, viewpoints, agricultural uses, and historic markers.

**Compensatory Mitigation** – The restoration, creation, enhancement, or in exceptional circumstances, preservation of wetlands and/or other aquatic resources expressly for the purpose of compensating for unavoidable adverse impacts which remain after all appropriate and practicable avoidance and minimization have been achieved. (See also **Mitigation Bank**.)

**Conceptual Mitigation Plan** – A document that includes the transportation project description, wetland impacts, and discussion of the mitigation concepts.

**Concurrency** – The requirement to have needed infrastructure (e.g., roads, sewers, water systems) in place or planned and funded within the next six years in the jurisdiction where the project is located. The “concurrency” process was established through the GMA.

**Conformity** – Projects are in conformity when they do not (1) cause or contribute to any new violation of any standards in any area, (2) increase the frequency or severity of any existing violation of any standard in any area, or (3) delay timely attainment of any standard or any required interim

emission reductions or other milestones in any area (EPA’s Conformity Rule).

**Constructed Wetlands** – Areas created or restored specifically to treat either point or nonpoint source pollution wastewater. Although a constructed wetland might look the same as a created wetland, different regulations apply. Design and maintenance of constructed wetlands is determined according to their stormwater and hydraulic functions. Vegetation is used to maximize the desired functions.

**Contaminant** – Any physical, chemical, biological, or radiological substance or matter that has an adverse affect on air, water, or soil.

**Contributing Element (or Resource)** – A building, site, structure, or object that adds to the historic architectural qualities, historic associations, or archaeological values for which a property is significant because: (a) it was present during the period of significance, and possesses historic integrity reflecting its character at that time or is capable of yielding important information about the period; or (b) it independently meets the National Register criteria. See National Register *Bulletin* 16A, p. 16.

**Corridor** – Road or highway right-of-way and the adjacent area that is visible from and extending along the highway. The distance the corridor extends from the highway could vary with different intrinsic qualities.

**Corridor Management Plan** – Written document that specifies the actions, procedures, controls, operational practices, and administrative strategies to maintain the scenic, historic, recreational, cultural, archeological, and natural qualities of the scenic byway.

**Council (Advisory Council on Historic Preservation)** – An independent federal agency that administers the Section 106 review process.

**Council on Environmental Quality (CEQ)** – An oversight council established within the Executive Office of the President with passage of the National Environmental Policy Act of 1969. The Council has been assigned the task of ensuring that federal agen-

cies meet their obligations under NEPA. Its role is to advise and assist the President on environmental policy development; recommend strategies and oversee implementation; report, coordinate, support, interpret, and approve procedures; and issue guidance. Regulations are codified as 40 CFR 1500-1508.

**Created Wetlands** – Wetlands that have been constructed on a nonwetland site specifically to compensate for wetland losses permitted under Section 404 of the Clean Water Act. Created wetlands can also be created to compensate for impacts under local permits or WSDOT directive. Wetlands can also be accidentally created as a result of construction activities.

**Criteria for Evaluation (National Register Eligibility Criteria)** – Standards used for determining the eligibility of properties for inclusion in the National Register of Historic Places. [36 CFR 60.4(a-d)]. See National Register *Bulletin* 15, pp. 11-24.

**Criteria Considerations** – Additional standards applying to certain kinds of historic properties. [36 CFR 60.4 (a-g)]. See National Register *Bulletin* 15, pp. 24-43.

**Criteria Pollutants** – Carbon monoxide, sulfur dioxide, particulate matter, ground level ozone, lead, and nitrogen dioxide.

**Critical Aquifer Recharge Area (CARA)** – Area designed by a city or county for protection under the Growth Management Act.

**Critical Habitat** – Specific area occupied by a listed species within its geographic range, which contains the physical or biological features essential to the conservation of the species and which may require special protection or management considerations.

**Cultural Landscape** – Also known as Rural Historic Landscape or Historic Landscape. A geographical area that historically has been used by people, or shaped or modified by human activity, occupancy, or intervention, and that possesses a significant concentration, linkage, or continuity of areas of land use, vegetation, buildings and structures, roads and waterways, and natural features. See

National Register Bulletin 30 and C.A. Birnbaum and C.C. Peters, *The Secretary of the Interior's Standards for the Treatment of Historic Properties, with Guidelines for the Treatment of Cultural Landscapes*, NPS, GPO, Washington, D.C., 1996.

**Cultural Patrimony** – Regarding cultural items, defined in NAGPRA as material remains of “historical, traditional, or cultural importance to the Native American group or culture itself.”

**Cultural Resource** – A place, object, or event that is important to a community or region’s history, traditions, beliefs, customs, or social institutions.

**Cultural Resource Specialist (CRS)** – A WSDOT employee in the Environmental Affairs Office who advises department staff on policies relating to items of historic/archaeology significance that may be affected by a project and who conducts regulatory compliance procedures.

**Cultural Resources Management** – The body of laws and regulations pertaining to historic, archaeological, and cultural properties, and the manner in which those directives are implemented.

**Cumulative impact** – Impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over time.

## D

**Dangerous Waste** – Solid waste designated as dangerous, or extremely hazardous or mixed waste in Washington’s. Dangerous Waste Regulations (WAC 173-303). Under RCRA, solid waste may (a) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (b) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed (listed in RCRA, 40 CFR 261). Dangerous wastes, not necessarily

listed under 40 CFR 261, are characteristically reactive, corrosive, toxic, or ignitable. Radioactive substances are excluded from RCRA regulation.

**Data Recovery Plan** – A plan developed in consultation with the SHPO and interested parties for conducting research, gathering information, and documenting an historic property that will be adversely affected by a WSDOT project.

**Delineated Wetlands** – Wetlands whose boundaries have been identified by a qualified biologist using a standard delineation methodology evaluating soils, vegetation, and hydrology. A right of entry might be required to formally delineate a wetland for project purposes if it does not occur entirely on WSDOT right of way. The delineated boundary is flagged in the field and surveyed. The biology report includes the delineation survey with flag locations and numbering.

**Design Year** – The future year used to estimate the probable traffic volume for which a highway is designed, usually 10 to 20 years from the beginning of construction.

**Designated River** – River area added to the National Rivers System by an act of Congress.

**Designed Historic Landscape** – A landscape that has significance as a design or work of art; that was consciously designed and laid out to a design principle or recognized style or tradition; that has an historical association with a significant person, trend, or event in landscape architecture; or that has a significant relationship to the theory or practice of landscape architecture. See National Register *Bulletin 18*.

**Determination of Effect** – A finding, by a federal agency in consultation with SHPO, pursuant to compliance with Section 106 (see definition) that a proposed undertaking will have an effect on historic properties. If an effect is identified, the Criteria of Adverse Effect is applied to determine potential Adverse Effect (see definition). Other possibilities are determinations of No Effects and No Adverse Effect.

**Determination of Eligibility** – Formal recognition (by the SHPO,

state Advisory Council, the Keeper of the National Register, or an agency) of a property’s eligibility for inclusion, but not actual listing, in the National Register of Historic Places. Determinations of Eligibility may be prepared on National Register Registration Forms (NPS 10-900).

**Direct Impact/Effect** – A direct impact (or effect) is caused by the proposed action or alternative and occurs at the same time and place. Impacts may be ecological, aesthetic, historic, cultural, economic, social, or health-related. For example, a highway crossing a stream may directly impact its water quality, though such impacts can be mitigated. For NEPA, see 40 CFR 1508.8.

**Discipline Report** – A WSDOT report prepared by Regional Offices or Divisions to document environmental studies and investigations. The discipline reports form the basis of the Environmental Impact Statement.

**Disproportionately High Impact** – The adverse impact is disproportionately high if it is predominately borne by a minority and/or low income population, or if the adverse impact that could be suffered by the minority or low income community is more severe or greater in magnitude than the adverse impact that could be suffered by the non-minority or non-low income community.

**District** – A significant concentration, linkage, or continuity of sites, buildings, structures, or objects united historically or aesthetically by plan or physical development. May be an archaeological or historic district, or may contain elements of both.

## E

**Easement (Preservation Easement)** – An agreement between a private property owner and a public body obligating the owner and future owners to preserve historic features of the property. The owner surrenders opportunities for development potential at “fair market value” for income, estate, and gift tax benefits of equal value.

**Economic Recovery Tax Act of 1981 (ERTA)** – Establishes the Investment Tax Credit (ITC) program for rehabilitation of older buildings,

including certified historic buildings (see definition). [PL 97-34] Amended by the Tax Reform Act of 1986 (see definition).

**EDNA** - Environmental designation for noise abatement, being an area or zone (environment) within which maximum permissible noise levels are established.

**Effect** – See “Impact.”

**Effect (Historic Properties)** – Occurs when an undertaking may alter characteristics that qualify a property for inclusion in the National Register. [Criteria of Effect: 36 CFR 800.9(a).]

**Eligible** – A property is eligible for inclusion in the National Register of Historic Places if it meets the National Register Criteria (see Criteria for Evaluation).

**Endangered Species** - Any species which is in danger of extinction throughout all or a significant portion of its range.

**Enforceable Policies** – Under the CZMA, legally binding policies (such as constitutional provisions, laws, regulations, land use plans, ordinances, or judicial or administrative decisions) by which a state exerts control over private and public land and water uses and natural resources in the coastal zone.

**Enhancement** – Actions taken to augment one or more functions and societal values at an existing degraded wetland where wetland criteria are currently met, along with its associated upland buffer area.

**Environmental Document** – Includes Environmental Assessments (NEPA), Environmental Checklists (SEPA), Draft and Final EISs, Section 4(f) Evaluations, Section 106 Reports, and other documents prepared in response to state or federal environmental requirements.

**Environmental Enhancement** – May be added to a transportation project to improve community acceptance (see 1990 FHWA Environmental Policy Statement). Environmental enhancements are incorporated into a project as part of routine decision-making to make it more compatible with and sensitive to community needs.

**Environmental Impact Statement (EIS)** – Required by NEPA and SEPA (see definitions), to include identification of known cultural resources in a federal or Washington State project area and disclosure of potential impacts.

**Environmental Justice** – Refers to the process of identifying and addressing disproportionately high and adverse health and/or environmental impacts on minority and low income populations. Incorporating environmental justice into the project development process entails documenting the demographics of affected minority and low income populations, recognizing any adverse impacts associated with the project, and identifying mitigation and enhancement measures to ensure that minority and low income populations are not disproportionately impacted by adverse effects.

**Environmental Review** – Consideration of environmental factors as required by NEPA and SEPA. The “environmental review process” is the procedure used by agencies and others to give appropriate consideration to the environment in decision making.

**Essential Public Facility** – Defined in the Growth Management Act (RCW 47.06.140), to include airports, and state and state or regional transportation facilities among other public facilities that are typically difficult to site. Improvements to facilities and services of statewide significance identified in the statewide multimodal plan are considered essential state public facilities.

**Evolutionarily Significant Unit** – A designation used by National Marine Fisheries Service (NMFS) for certain local salmon populations or “runs” which are treated as individual species under the Endangered Species Act. This is equivalent to the U.S. Fish and Wildlife Service (USFWS) “Distinct Population Segment” classification.

**Exempt Projects** – Listed in federal and state regulations (40 CFR 93.126 and WAC 173-420-110). These projects improve safety, mass transit, or air quality, or preserve or maintain existing transportation facilities, and are considered to have a neutral impact on air quality.

**Existing Noise Level** – Natural and man made noises considered to be usually present within a particular area’s acoustic environment.

**Exotic Species** – Species found in, but not native to, a particular area.

## F

**Farmland of Statewide or Local Importance** – Farmland, other than prime or unique farmland, that is of statewide or local importance for the production of food, feed, fiber, forage, or oil-seed crops, as determined by the state or local government agency or agencies, using U.S. Department of Agriculture guidelines.

**Federal Nexus** - When the federal government is connected to a project either by owning land within the project limits, providing project funding, or by requiring a permit.

**Final Wetland Mitigation Plan** – A document that includes description of all wetlands in the project area, wetland site plan, wetland site plan, wetland revegetation plan, standards of success, operation and maintenance of the mitigation site, and the monitoring plan.

**Flood** – A general and temporary condition of partial or complete inundation of normally dry land areas from one of the following four sources: (1) Overflow of inland or tidal waters. (2) Unusual and rapid accumulation or runoff of surface waters from any source. (3) Mudslides or mudflows that are like a river of liquid mud on the surface of normally dry land area, as when earth is carried by a current of water and deposited along the path of the current. (4) Collapse or subsidence of land along the shore of a lake or other body of water as a result of erosion or undermining caused by waves or currents of water.

**Floodplain** – Any land area susceptible to being inundated by flood waters from any source; usually the flat or nearly flat land on the bottom of a stream valley or tidal area that is covered by water during floods.

**Floodplain Boundaries** – Lines on flood hazard maps that show the limits of the 100- and 500-year floodplains.



**Floodway** – The channel of a river or watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively raising the water surface elevation more than a designated height. Normally, the base flood is defined as the 1 percent chance flood and the designated height is 1 foot above the pre-floodway condition.

**Fugitive Dust** – Particulate matter that is suspended in the air by wind or human activities and does not come out of a stack

**Function Assessment** – Systematic method(s) designed to evaluate the presence and level of performance of wetland functions. Function Assessment methods include, but are not limited to, Reppert et al., Habitat Evaluation Procedure, Wetland Evaluation Technique, Indicator Value Assessment, and Hydrogeomorphic methods.

**Functions and Values** – Functions are the physical, chemical, and biological characteristics of a wetland. Values are those characteristics, which are beneficial to society. Specific wetland functions include ground water recharge, ground water discharge, flood flow alteration, sediment stabilization, sediment and toxicant retention, nutrient removal and transformation, production export, fish and wildlife habitat, wildlife diversity and abundance, and aquatic diversity and abundance. Wetland values can include uniqueness and heritage value, education, economic importance and recreation.

## G

**Groundwater** – Water that occurs below the surface of the earth, contained in pore spaces. It is either passing through or standing in the soil and underlying strata and is free to move under the influence of gravity.

## H

**Habitat** - Place where a plant or animal naturally or normally completes its life cycle.

**Historic American Building Survey (HABS) and Historic American Engineering Record (HAER)** – The historical architecture and engineering

programs of the National Park Service that promote preservation through documentation in the Library of Congress of significant structures. HABS/HAER documentation can be sponsored by NPA, individuals, or organizations, but often is completed by agencies pursuant to Sections 106 or 110(b) of the National Historic Preservation Act. Those HABS/HAER mitigation projects record properties to be demolished or substantially altered as a result of agency action or assisted action.

**Hazardous Materials (or Substances)** – In general, any hazardous or toxic substance, pollutant, or chemical regulated under the CAA, CWA, TSCA, and/or RCRA, excluding petroleum (CERCLA Sec. 101(14)); a pollutant or contaminant as any substance likely to cause death, disease, abnormalities, etc. (CERCLA Sec. 101(33)). Listed in 40 CFR 302.

**Hazardous Waste** – Solid wastes designated by 40 CFR Part 261, and regulated as hazardous and/or mixed waste by the USEPA according to Washington's Dangerous Waste Regulations (WAC 173-303). Hazardous wastes defined under RCRA are included as a subset of hazardous materials defined under CERCLA.

**Herbicide** – A chemical pesticide designed to control or destroy plants, weeds, or grasses.

**Historic Context** – A body of information about historic properties organized by theme, place, and time. It is the organization of information about prehistory and history according to the states of development occurring at various times and places.

**Historic Preservation** – Identification, evaluation, recordation, documentation, curation, acquisition, protection, management, rehabilitation, restoration, stabilization, maintenance and reconstruction, or any combination of the foregoing activities relating to historic properties. [16 USC 470w(8)]

**Historic Property** – A property or cultural resource that is listed in or eligible for listing in the National Register and, under SEPA, in state and local historic registers. Historic properties may be buildings or other

structures, objects, sites, districts, archaeological resources, and traditional cultural properties (landscapes).

**Hot-spot Analysis** – An estimate of likely future localized CO and PM<sub>10</sub> pollutant concentrations and a comparison of those concentrations to the national ambient air quality standards. Hot-spot analysis assesses impacts on a scale smaller than the entire nonattainment or maintenance area (for example, congested roadway intersections and highways or transit terminals), and uses an air quality dispersion model to determine the effects of emissions on air quality (40 CFR 93.101). See 40 CFR 93.116 for analysis procedure.

**Hydrology** – The science that relates to the occurrence, properties, and movement of water on the earth. It includes water found in the oceans, lakes, wetlands, streams, and rivers, as well as in upland areas, above and below ground, and in the atmosphere.

## I

**Impact** – Synonymous with "Effect". Includes ecological impacts (such as the effects on natural resources and on the components, structures, and functioning of affected ecosystems), aesthetic, historic, cultural, economic, social, or health impacts, whether direct, indirect, or cumulative. Effects may also include those resulting from actions that may have both beneficial and detrimental effects, even if on balance the agency believes the effect will be beneficial.

**Impact (Wetland)** – An action that adversely affects a wetland or other ecosystem; for example, road construction, timber clearing, or agricultural activities that result in wetland conversion or degradation.

**Impact Criteria** – The yardstick used to describe the noise environment acceptable in a given situation. In most cases, projects are strictly transit or highway with the possibly the inclusion of some transit components. There are two sets of criteria, one for each type of project. Transit project criteria is covered in the April 1995 Final Report *Transit Noise and Vibration Assessment*. FHWA



considers 23 CFR 772 to be the criteria for highway type projects.

**Impacted Community** – Noise sensitive receptor sites (such as schools or neighborhoods) where people would be exposed to substantially increased noise levels or noise levels that approach abatement criteria due to a project.

**Incidental Take** - Take of listed species that results from, but is not the purpose of, carrying out an otherwise lawful activity conducted by a Federal agency or applicant.

**Indicator** – One of the specific environmental attributes measured or quantified through field sampling, remote sensing, or compilation of existing data from maps or land use reports, used to assess ecosystem condition or functions or exposure to environmental stress agents.

**Indirect Conversion** – Acres remaining in a tract that is partially taken for right of way which (a) could no longer be farmed because the project would restrict access, or (b) would likely be converted because of accessibility to a new highway.

**Indirect Impact/Effect** – Indirect impacts (or effects) are caused by the proposed action or alternative and are later in time or farther removed in distance, but still reasonably foreseeable. Indirect effects may include growth-inducing effects and other effects related to induced changes in the pattern of land use, population density or growth rate, and related effects on air and water and other natural systems. For example, a road project may shift existing or projected housing growth into a different area of a region. The growth was happening already, but “indirectly” the road project influenced where it took place. (Note: “Indirect” is defined somewhat differently under NEPA and ESA rules). For NEPA, see 40 CFR 1508.8.

**Injection Well** – Any disposal system designed to place fluids, including highway runoff and treated wastewater from onsite sewage disposal systems, into the subsurface. Such systems include bored, drilled, or dug holes; for example dry wells, French drains, and drainfields.

**In-kind Compensation** – Development of wetlands that are of the same system and class, as defined by Cowardin et al., (1979) in *Classification of Wetlands and Deepwater Habitats of the United States*, and that provide similar wetland functions and values as those wetlands adversely impacted by development activities.

**Integrity** – A measure of a property’s evolution and current condition, especially as it relates to the authenticity of a property’s historic identity, evidenced by the survival of physical characteristics that existed during the property’s historic or prehistoric period.

**Interdependent Effects** – Effects caused by actions that have no independent utility apart from the proposed action.

**Interrelated Effects** – Effects created by a proposed action that would not occur “but for” that action.

**Intrinsic quality** – Scenic, historic, recreational, cultural, archeological, or natural features that are considered representative, unique, irreplaceable, or distinctly characteristic of an area

**Invasive Vegetation** – Those (typically) nonnative plant species that often outcompete native plant communities.

**Investment Tax Credit (ITC)** – Credit granted by the federal government against tax liability for the certified rehabilitation of buildings for income-producing purposes. Made available by the Economic Recovery Tax Act of 1981.

**Irretrievable** – Impossible to retrieve or recover.

**Irreversible** – Impossible to reverse.

## J

**Joint Development** – Participating jointly with a local jurisdiction or private party in an element of the project or impact mitigation

**Jurisdiction** - Governing authority which interprets and applies laws and regulations.

**Jurisdictional Wetlands** – All naturally occurring wetlands, some wetlands unintentionally created as

the result of construction activities, and those created specifically for the compensation of wetland losses. These wetlands are regulated by the Army Corps of Engineers and local jurisdictions. (Ditches created in non-wetland areas that support wetland vegetation are not usually considered jurisdictional wetlands.) Check with the Environmental Affairs Office for site-specific clarification.

## K

**Keeper of the National Register** – Maintains the National Register of Historic Places, and makes final decisions on listing of properties nominated to the National Register.

## L

**Large Woody Debris** - Conifer or deciduous logs, limbs, or root wads of a certain diameter which interact with the stream channel and contribute to the habitat diversity of the stream.

**Late-successional** – Stage in forest development that includes mature and old growth forest.

**Lead Agency** – The agency or agencies preparing or having taken primary responsibility for preparing the environmental documents

**Level of Service** – A tool for identifying when a public service or infrastructure has reached capacity and requires an improvement or another similar facility. The most common use is the LOS A-F standard for capacity, volume, and delays at a traffic intersection, F being the worst congestion and delay time period.

**Listed Species** - Any species of fish, wildlife, or plant which has been determined to be endangered or threatened under Section 4 of the ESA.

**Low Income** – A person whose median household income is below the Department of Health and Human Services poverty guidelines for that size of household.

## M

**Maintenance Area** – An area which previously was considered a “Nonat-

tainment Area” but has achieved compliance with the NAAQS.

**Management Plan** – Typically addressed appropriate treatments and preservation strategies for managing historic properties. Often included as an item in a Programmatic Agreement (PA – see definition).

**Minority** – A person who is a citizen or lawful permanent resident of the United States and who is: (a) Black (a person having origins in any of the black racial groups of Africa), (b) Hispanic (a person of Mexican, Puerto Rican, Cuban, Central or South American, or the Spanish culture or origin, regardless of race), (c) Asian American (a person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands), or (d) American Indian or Alaskan Native (a person having origins in any of the original peoples of North America, and who maintains cultural identification through tribal affiliation or community recognition).

**Mitigation** – (1) Avoiding the impact altogether by not taking a certain action or parts of an action; (2) minimizing impacts by limiting the degree of the action; (3) rectifying the impact by repairing or enhancing the affected environment; (4) reducing or eliminating the impact over time; (5) compensating for the impact by replacing or substituting resources or environment; or (6) monitoring the impact and taking appropriate corrective measures. Also referred to as “mitigation sequencing”. For NEPA, see 40 CFR 1508.2. For SEPA, see WAC 197-11-768.

**Mitigation (Wetlands)** – Mitigation means sequentially avoiding impacts, minimizing impacts, and compensating for remaining unavoidable impacts. In the following order of decreasing preference, mitigation is: (a) Avoiding the impact altogether by not taking a certain action or part of an action. Avoidance has the greatest reliability and is the simplest and most effective way to minimize impacts. (b) Minimizing impacts by limiting the degree or magnitude of the action and its implementation, by using appropriate technology, or by taking affirmative steps to avoid or reduce impacts. (c) Rectifying the impact by repairing, rehabilitating, or restoring the affected

environment. (d) Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action. (e) Compensating for the impact by replacing, enhancing, or providing substitute resources or environments.

**Mitigation Bank** – A net gain in wetlands to be drawn upon to offset several small wetland losses from several off-site sites or projects. A property that has been protected in perpetuity, and approved by appropriate county, state and federal agencies, expressly for the purpose of providing compensatory mitigation in advance of authorized impacts. The compensatory mitigation may be through restoration, creation, and/or enhancement of wetlands, and the preservation of adjacent wetland or stream buffers and other habitats.

**Mitigation Bank Credits** – The acres or other agreed upon unit of currency available at a mitigation bank site for use as compensation. A unit of trade representing the increase in the ecological value of the site, as measured by acreage, functions and/or values, or by some other assessment method.

**Mitigation Bank Currency** – The medium of exchange of credits for debits in a mitigation bank. The currency represents an amount of wetland area and functions and values.

**Mitigation Bank Debits** – The acres or other agreed upon unit of currency adversely impacted by development activities.

**Mitigation Bank Implementation Plan** – A plan under which each mitigation bank site must be explicitly authorized to document the following: (a) site selection (b) service area (c) preliminary design (d) final design and number of credits anticipated (e) as-builts and number of potential credits (f) mechanism for tracking credits (transaction ledger) (g) hydrology performance standards (h) other performance standards (i) schedule for credit release (j) contingency plans (k) maintenance and monitoring schedules (l) long term management of bank

**Mitigation Bank Instrument** – The documentation of agency and bank

sponsor concurrence on the objectives and administration of a mitigation bank. The instrument describes in detail the physical and legal characteristics of the bank, including the service area, and how the bank will be established and operated.

**Mitigation Bank Service Area** – A designated geographic area (e.g., watershed, county) wherein a mitigation bank can reasonably be expected to provide appropriate compensation for impacts to wetlands and/or other aquatic resources.

**Mitigation Bank Sponsor** – Any public or private entity responsible for establishing and, in most circumstances, operating a mitigation bank.

**Mitigation Measures** – Actions required to mitigate adverse effects to historic properties. Usually stipulated in an MOA/PA.

**Modified Natural (River)** – River area where the associated natural environment of the river area is relatively undisturbed with little evidence of cultural development and natural resource management. Forest roads, hunters’ cabins, and semi-primitive campgrounds may be evident. Natural features dominate the viewscape.

**Monitoring** – The systematic evaluation of a mitigation site to determine the degree to which the site meets its performance standards and to determine if modifications in the maintenance or management of the site is necessary to achieve the performance standards.

**Multiple Property Nomination** – A registration of several significant properties linked by a common property type or historic context. Submitted to SHPO and NPS on National Register Multiple Property Documentation Forms (NPS 10-900-b), known as “MPDs.” See National Register Bulletin 16B.

## N

**National Historic Landmark** – Historic properties of national significance, established by the Historic Sites Act of 1935 [PL 74-292]. NHLs are also listed in the National Register. [National

Historic Landmark Program,  
36 CFR 65.]

**National Register of Historic Places**

– The nation's official listing of properties significant in national, state and/or local history, meeting one or more criteria for evaluation (36 CFR 60.4). Listing is commemorative, but may require compliance by property owners with federal/state/local laws and regulations. May also provide private property owners with opportunities to take advantage of preservation incentives, such as easements and tax relief.

**Nationwide Rivers Inventory** – A national listing of rivers potentially suitable for inclusion in the National Rivers System.

**Natural Wetlands** – Wetlands that exist due to natural forces alone, or unintentionally developed through construction or management practices which alter hydrology. Natural wetlands can be found in unusual areas, including filled areas, some ditches, inactive borrow pits, ponds, and agricultural fields. Natural wetlands are protected by federal, state, and local regulations as well as WSDOT's internal policies.

**Noise Abatement Criteria (NAC)** – Noise levels for various activities or land uses which, when approached or exceeded, are considered to be traffic noise impacts.

**Nomination** – Official request to have a property listed in the National Register. Documentation is placed on a National Register of Historic Places Registration Form (NPS 10-900) and submitted to the CLG (if appropriate), the SHPO, and the Keeper of the National Register (see definitions). See National Register *Bulletin 16A*

**Nonattainment Area** – Area that exceeds health-based NAAQS for certain air pollutants designated by the EPA. Current nonattainment areas are shown in WSDOT's GIS Workbench (see **Section 425.05 (1)**).

**Non-contributing Element (Resource)** – A building, site, structure, or object that *does not* add to the historic architectural qualities, historic associations or archaeological values for which a property is significant because: (a) it was not present during

the period of significance; (b) due to alterations, disturbances, additions, or other changes, it no longer possesses historic integrity reflecting its character at that time or is incapable of yielding important information about the period, or (c) it does not independently meet the National Register criteria. See National Register *Bulletin 16A*.

**Non-jurisdictional Wetlands** – Non-jurisdictional wetlands include those artificial wetlands intentionally created from nonwetland sites, including, but not limited to, irrigation and drainage ditches, canals excavated in uplands, stormwater detention ponds, wastewater treatment facilities created in uplands, and certain agricultural activities and landscape amenities created in uplands. Grass-lined swales and wastewater treatment facilities can be constructed in wetlands but must be so designated and specifically designed for water treatment purposes. Mitigation is required to compensate for the wetland lost to such a facility. The Shoreline Management Act and Growth Management Act include as non-jurisdictional those wetlands created after July 1, 1990, that were unintentionally created as a result of the construction of a road, street, or highway. WSDOT has a "no net loss" policy regarding wetlands and will mitigate impacts to wetlands created after that date.

**Noxious weeds** – Non-native plants that are highly destructive, competitive, and difficult to control or eliminate. Noxious weeds should be controlled wherever they occur and should not be introduced to new sites.

## O

**Object** – A construction primarily artistic in nature or relatively small in scale.

**Old growth** – Forest stand with moderate to high canopy closure; a multilayered, multispecies canopy dominated by large overstory trees; a high incidence of large trees with large, broken tops, and other indications of decadence; numerous large snags and heavy accumulations of logs and other woody debris on the ground.

**Out-of-Kind Compensation** – Compensation that replaces one wetland system and class, as defined by Cowardin, with another.

**Ozone (O<sub>3</sub>)** – A highly reactive form of oxygen that occurs naturally in the earth's upper atmosphere (stratosphere). Stratospheric ozone is a desirable gas that filters the sun's ultraviolet (UV) radiation. Ozone at ground level is not emitted directly into the air; instead it forms in the atmosphere as a result of a series of complex sunlight-activated chemical transformations between oxides of nitrogen (NO<sub>x</sub>) and hydrocarbons which together are precursors of ozone.

## P

**Particulate Matter (PM<sub>10</sub> and PM<sub>2.5</sub>)** – Includes both naturally occurring and man-made particles with a diameter of less than 10 microns or 2.5 microns respectively. Sources of particulate matter include sea salt, pollen, smoke from forest fires and wood stoves, road dust, industrial emissions, and agricultural dust. Particles of this size are small enough to be drawn deep into the respiratory system where they can contribute to infection and reduced resistance to disease.

**Patent** – Legal title to real property. Granted by the federal government for parcels of the public domain when alienation occurs as the result of homesteading or similar action.

**Performance Standards** – Quantifiable standards capable of measuring the degree of success of a mitigation site when compared to previously established goals and objectives. An observable or measurable benchmark for a particular objective, against which a mitigation site can be compared. If the specified standard is met, the related objective is considered to be successful.

**Pollutant** – Any substance of such character and in such quantities that upon reaching the environment (soil, water, or air), is degrading in effect so as to impair the environment's usefulness or render it offensive.

**Preservation** – Setting aside of wetlands in their existing condition to

protect them in perpetuity as part of a plan for compensatory mitigation.

**Prime Farmland** – Land that has the best combination of physical and chemical characteristics for producing food, feed, fiber, forage, oilseed, and other agricultural crops with minimum inputs of fuel, fertilizer, pesticides, and labor, and without intolerable soil erosion. Prime farmland includes land that possesses the above characteristics and may include land currently used as cropland, pastureland, water storage, rangeland, or forestland. It does not include land already in or committed to urban development or water storage.

**Primitive (River)** – River area that is in pristine condition with minimal evidence of human activity.

**Programmatic Agreement (PA)** – An agreement typically developed for a large or complex project or types of undertakings that would otherwise require a number of individual actions.

**Programmatic Biological Assessment** – A biological assessment designed to cover programs, not specific projects.

**Project Description** – A narrative written by the proponent to describe the project proposal. It may include explanations of the existing physical, environmental, social, and economic setting in which the proposed project is situated, a legal description of the location, and an explanation of the intended improvements.

**Property Type** – Historic properties sharing physical or associative characteristics.

**Proposed species** – Any species of fish, wildlife, or plant that is proposed in the Federal Register to be listed under Section 4 of the ESA.

**Public Service** – SEPA lists fire, police, schools, parks or other recreational facilities, maintenance, communications, water/stormwater, sewer/solid waste, and other governmental services or utilities as elements of the built environment to be considered during the environmental review process.

## R

**Recreational River Areas** – Rivers or sections of rivers that are readily accessible by road or railroad that may have undergone some impoundment or diversion in the past.

**Regionally Significant Project** – A transportation project (other than an exempt project) that serves regional transportation needs (such as access to and from the region, major activity centers in the region, major planned developments such as new retail malls, sports complexes, or transportation terminals as well as most terminals themselves). Such projects would normally be included in the modeling of a metropolitan area's transportation network, including at a minimum all principal arterial highways and all fixed guideway transit facilities that offer an alternative to regional highway travel (40 CFR 93.101).

**Registration Requirements** – Attributes of significance and integrity qualifying a property for listing in the National Register; especially important in establishing eligibility for each property type in Multiple Property submissions.

**Rehabilitation** – The process of returning a property to a state of utility, through repair or alteration, which makes possible an efficient contemporary use while preserving those portions and features of the property which are significant to its historic, architectural, and cultural values. [36 CFR 67.2]

**Relocation (Historic/Cultural Resources)** – The adjustment of utility facilities required by a highway project. Includes removing and installing facilities, acquiring necessary property rights in the new location, moving or rearranging existing facilities, or changing the type of facility, including any necessary safety and protective measures. Also means constructing a replacement facility, functionally equal to the existing facility, where necessary for continuous operation of the utility service, project economy, or for staging highway construction.

**Request for Proposal (RFP)** – Issued by agencies soliciting contracted cultural resource studies.

**Resource** – Referred to in NEPA and SEPA implementing regulations as “natural or depletable” resources (CEQ 1502.16; WAC 197-11-440 (6)) and renewable or nonrenewable resources (WAC 197-11-444). FHWA Technical Advisory T6640.8A (October 30, 1987) refers to “natural, physical, human, and fiscal resources” in guidance on irreversible and irretrievable commitments of resources.

**Responsible Official** – Official of the lead agency who has been delegated responsibility for complying with NEPA/SEPA procedures. For most WSDOT projects, the Responsible Official is the Director of Environmental Services. For SEPA-only projects the Regional Administrator is the Responsible Official.

**Restoration** – Actions taken to intentionally reestablish wetland area, and functions and values where wetlands previously existed, but are currently absent due to the absence of wetland hydrology or hydric soils. Re-establishment of historic wetland types with high quality functions and values where degraded wetlands are currently present may also be considered restoration (e.g. conversion of diked palustrine wetland to estuarine wetland).

**Rural (River)** – River area characterized by extensive agricultural and other resource-related activities. Cultural development is typically scattered homes and communities.

**Rural Historic Landscape** – See Cultural Landscape, and National Register Bulletin 30.

## S

**Scenic River Areas** – Rivers or sections of rivers that are free of impoundment, with shorelines or watersheds still largely undeveloped, but accessible in places by roads.

**Scoping** – Formal scoping for an EIS includes identifying the range of proposed actions, alternatives, environmental elements and impacts, and mitigation measures to be analyzed in an environmental document. Public

and agency scoping meetings are generally associated with this activity for NEPA scoping activities. (SEPA does not require a public hearing during the SEPA scoping for an EIS.)

**Secondary Effect/Impact** – Same as indirect effect under NEPA.

**Secretary of the Interior's Standards for Rehabilitation** – Ten general rules outlining appropriate rehabilitation (see definition) for historic properties. Used to evaluate whether the historic character of a building is preserved in the process of rehabilitation, and to determine eligibility of certified rehabilitation (see definition) projects. [36 CFR 67.]

**Setting** – Quality of integrity applying to the physical environment of an historic property.

**Shorelines** – Land within 200 feet of the ordinary high water mark of waters of the state, including marine waters, rivers, streams, lakes, and reservoirs, and their associated wetlands, floodways, deltas, and floodplains. The Shoreline Management Act (RCW 90.58.030 (2d)) excludes streams with a mean annual flow of 20 cfs or less and lakes smaller than 20 acres (including adjacent wetlands).

**Shorelines of Statewide Significance** – Shorelines for which there is special interest in preserving the natural characteristics and encouraging and increasing public access.

**Significant Impact** – The significance of potential impact on the natural or built environment depends upon context, setting, likelihood of occurrence, and severity, intensity, magnitude, or duration of the impact. WAC 197-11-330 specifies a process, including criteria and procedures, for determining whether a proposal is likely to have a significant adverse environmental impact.

Determining the “significance” of an impact is not defined in black and white. It is based on past experience of the person preparing the document and is influenced by court interpretations. Ultimately, the definition may rest with the legal system if the document is challenged. WSDOT and FHWA practice is to not use the word “significant” in an environmental document unless the document

is referring to a 4(f) or Section 106 resource or quoting a regulation or law. Use a synonym such as substantial, primary, major, or high level.

**Site** – Any alternative alignment on a highway project, including areas converted directly (within the right of way) or indirectly by a proposed action (see “Indirect Conversion”).

**Site (Historic/Cultural Resources)** – The location of a significant event, a prehistoric or historic occupation or activity, or a building or structure, whether standing, ruined, or vanished, where the location itself possesses historic, cultural, or archaeological value regardless of the value of any existing structure.

**Sole Source Aquifer (SSA)** – Any aquifer which (1) is so designated by USEPA, (2) supplies 50 percent or more of the drinking water to the population living over the aquifer, (3) has distinct hydrogeological boundaries, and (4) for which there is no economically feasible alternative source of drinking water if it should be contaminated.

**Solid Waste** – Under RCRA Sec. 1004(27), any garbage, refuse, sludge, from a waste treatment plant, water supply treatment plant, or air pollution control facility and other discarded material, including solid, liquid, semisolid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations, and from community activities. Excludes solid or dissolved material in domestic sewage, irrigation return flows, industrial discharges, nuclear, or nuclear byproduct material.

**Source Water Protection Area** – Area protected for drinking water supplies.

**Special Flood Hazard Area** – An area with a one percent chance of being flooded in any given year; hence the property is in the 100-year floodplain.

**State Implementation Plan (SIP)** – Framework for complying with federal law (40 CFR Part 51) requiring that the state take action to quickly reduce air pollution to healthful levels in a non-attainment area, and to

provide enough controls to keep the area clean for 20 years. States have to develop a SIP that explains how it will do its job under the CAA. A SIP is a collection of the regulations a state will use to clean up polluted areas. EPA must approve the SIP, and if a SIP is not acceptable, EPA can take over, enforcing the CAA in that state. WSDOT projects must conform to the SIP before the FHWA and the EPA can approve construction.

**Stormwater** – Rainwater that flows over land and into natural and artificial drainage systems. Stormwater runoff is a major transporter of nonpoint source pollutants. \

**Structure** – Functional constructions made usually for purposes other than creating shelter.

**Study River** – River area to be studied to determine if it qualifies for addition to the National Rivers System.

**Substantial Development** – Any development of which the total cost, or fair market value, exceeds \$2,500.00, or any development that materially interferes with normal public use of the water or shorelines of the state.

**Substantial increase** – Defined as a ten decibels (dBA) increase over existing noise levels

**Surface Runoff** – Overland flow of water

**Surface Runoff/Stormwater** – Precipitation, snow melt, or irrigation in excess of what can infiltrate the soil surface and be stored in small surface depressions; runoff is a major transporter of nonpoint source pollutants. Urban runoff is surface runoff from urban areas such as streets, parking lots, and residential developments.

**Surface Water** – All water naturally open to the atmosphere, such as rivers, lakes, reservoirs, ponds, streams, seas, and estuaries.

**Suspended Sediment** – Fine material or soil particles that remain suspended by the current until deposited in areas of weaker current. Can be measured in a laboratory as “Total Suspended Solids” (TSS).

## T

**Take** – Defined under the ESA as “to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or attempt to engage in any such conduct,” including modification to a species’ habitat.

**Threatened Species** – Any species which is likely to become endangered within the foreseeable future throughout all or a significant portion of its range.

**Threshold Determination** – The decision by the responsible official of the lead agency whether or not an EIS is required for a proposal that is not categorically exempt.

**Traditional Cultural Property** – A place eligible for inclusion in the National Register because of its association with cultural practices or beliefs of a living community that are (a) rooted in that community’s history, and (b) important in maintaining the continuing cultural identity of the community. The concept is based upon the introductory section of the National Historic Preservation Act, which states that “the historical and cultural foundations of the Nation should be preserved as a living part of our community life in order to give a sense of orientation to the American people.” [16 USC 470(b)(2)] See National Register *Bulletin* 38. Authorized by the 1992 Amendments to the National Historic Preservation Act. [Section 101(d)(6)(A).]

**Traffic Noise Impacts** – Impacts which occur when the predicted traffic noise levels approach or exceed the Noise Abatement Criteria or when the predicted traffic noise levels substantially exceed the existing noise levels.

**Transportation Enhancements** – Funded through a provision of ISTEA with funds set aside from the Surface Transportation Program. Transportation Enhancements funding may be available to help meet these needs.

**Transportation Facilities of State-wide Significance** – Defined in RCW 81.104.015 to include the interstate highway system, interregional state principal arterials including ferry connections that serve statewide travel, intercity passenger rail services, intercity high-speed ground

transportation, major passenger intermodal terminals excluding all airport facilities and services, the freight railroad system, the Columbia/Snake navigable river system, marine port facilities and services that are related solely to marine activities affecting international and interstate trade, and high-capacity transportation systems serving regions.

**Transportation Improvement Program (TIP)** – A staged, multiyear intermodal program of transportation projects covering a metropolitan planning area which is consistent with the state and metropolitan transportation plan, and developed pursuant to 23 CFR Part 450. The entire program must conform with the NAAQS in order for any federal funding to be granted for individual projects.

**Turbidity** – A condition in water or wastewater caused by the presence of suspended material resulting in scattering and absorption of light rays.

**Type I Project (Noise)** – A proposed highway construction at a new location or the physical alteration of an existing highway which significantly changes either the horizontal or vertical alignment or increases the number of traffic through lanes.

**Type II or Retrofit Project (Noise)** – A proposed project for noise abatement on an existing highway or highway configuration.

## U

**Undertaking** – Any activity that can result in changes in the character or use of historic properties. The activity must be under the direct or indirect jurisdiction of a federal agency or licensed or assisted by a federal agency. [36 CFR 800.2(o).]

**Unique Farmland** – Land other than prime farmland that is used for production of specific high-value food and fiber crops. It has the special combination of soil quality, location, growing season, and moisture supply to economically produce sustained high quality or high yields of specific crops when treated and managed according to acceptable farming methods. Examples of such crops include lentils, nuts, annual cropped

white wheat, cranberries, fruits, and vegetables.

**Universal Transverse Mercator (UTM) Grid System** – Method for locating historic properties using USGS maps and measurements cited in linear, decimal units. Measurements are referred to as “UTMs.”

**Urban River** – River area that is intensively modified by cultural activities, primarily residential and light commercial development. The river has high water quality and highly rated natural features such as historical and archaeological sites, fisheries resources, wildlife, or recreational values.

**Urban Growth Area** – The identified boundary that allows for higher density and focused infrastructure development to control growth from “sprawling” into the identified rural and sensitive areas of local jurisdictions.

**Utility** – Privately, publicly, or cooperatively owned lines, facilities, and systems for producing, transmitting, or distributing communications, cable television, electric power, light, heat, gas, oil, crude products, water, steam, waste, stormwater not connected with highway drainage, and other similar commodities, including any fire or police signal systems, street lighting systems, and traffic control system interties, which directly or indirectly serve the public. (WSDOT *Utilities Manual* (M 22-87), Chapter 2.)

## V

**Vehicular** – Refers to public, private vehicles; single and high occupancy vehicles, freight, bicycles, and pedestrians.

**Viability** – Ability of a population to maintain sufficient size so it persists over time in spite of normal fluctuations in numbers; usually expressed as a probability of maintaining a specific population for a defined period.

**Visual Element** – A particular feature of the visual quality.

**Visual Function** – Element of a transportation project that is designed and experienced primarily from a

visual perspective; includes positive guidance and navigation, distraction screening, corridor continuity, roadway and adjacent property buffering, and scenic view preservation.

**Visual Quality** – Character of the landscape, which generally gives visual value to a setting; the view from the road.

## W

**Wastewater** – Literally, water that has been used for some purpose and discarded, or wasted; typically liquid discharged from domestic residential, business, and industrial sources that contains a variety of wastes.

**Water Right** – Legal authorization to use a certain amount of public water for specific beneficial purposes.

**Watershed** – Basin including all water and land areas that drain to a stream or common body of water; the watershed for a major river may encompass a number of smaller watersheds that ultimately combine at a common point.

**Wellhead Protection Area** – Area managed by a community to protect groundwater drinking water supplies.

**Wetland Buffer** – The area adjacent to a wetland that serves to protect the wetland from outside influences. Wetland buffers also contribute to the integral functions of the wetland. Regulated buffer widths vary depending upon the quality of the wetland and guidelines established by the local jurisdiction under the state Growth Management Act. Required buffer widths are identified in the project's wetland/biology report. Wetland buffers must be shown on contract plans sheets. No work may occur within an identified wetland buffer area unless it has been approved by the appropriate permitting agency.

**Wetland Functions** – Wetland functions are the physical, chemical, and biological processes or attributes that are vital to the integrity of wetland/upland landscape interrelationships (landscape systems).

**Wetland Inventory** – A wetland inventory is a data collection process during which information about the presence, approximate extent, and in some cases the characteristics of wetlands are collected. Inventories can be general (e.g., aerial photographs) or site-specific (through field inventory work).

**Wetlands** – Areas that are inundated or saturated by surface water or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas. Wetlands do not usually include those artificial wetlands intentionally created from non-wetland sites, including, but not limited to, irrigation and drainage ditches, grass-lined swales, canals, detention facilities, wastewater treatment facilities, farm ponds, and landscape amenities. However, wetlands may include those artificial wetlands intentionally created from non-wetland areas to mitigate conversion of wetlands, if permitted by the appropriate authority.

**Wetland Values** – Wetland values are those attributes that, although not necessarily essential to the integrity of the landscape systems, are perceived as valuable to society (Adamus et al, 1991).

**Wild River Areas** – Areas or sections of rivers of the United States that are free of impoundment and generally inaccessible, except by trail, with watersheds or shorelines essentially untouched and waters unpolluted. They represent vestiges of America prior to European settlement.

**Wilderness** – Areas defined in the Wilderness Act where “the earth and its community of life are untrammelled by man, where man is a visitor who does not remain....”



## Web Site Reference Guide

### FEDERAL

Agencies and Organizations	Acronym or Abbreviation	Web Site
Advisory Council on Historical Preservation	ACHP	<a href="http://www.achp.gov/">http://www.achp.gov/</a>
Bureau of Land Management, Oregon/Washington	BLM	<a href="http://www.or.blm.gov/">http://www.or.blm.gov/</a>
Council on Environmental Quality	CEQ	<a href="http://www.whitehouse.gov/CEQ/">http://www.whitehouse.gov/CEQ/</a>
Federal Aviation Administration	FAA	<a href="http://www.faa.gov/">http://www.faa.gov/</a>
<b>Federal Register</b>	<b>FR</b>	<a href="http://www.archives.gov/">http://www.archives.gov/</a>
Federal Transit Administration	FTA	<a href="http://www.fta.dot.gov/">http://www.fta.dot.gov/</a>
Legal Information Institute <i>Useful for viewing federal statutes</i>	LII	<a href="http://www4.law.cornell.edu/uscode/">http://www4.law.cornell.edu/uscode/</a>
National Archives and Records Administration <i>Useful for viewing federal regulations</i>	NARA	<a href="http://www.access.gpo.gov/nara/cfr/">http://www.access.gpo.gov/nara/cfr/</a>
National Marine Fisheries Service	NMFS	<a href="http://www.nmfs.noaa.gov/">http://www.nmfs.noaa.gov/</a>
National Park Service	NPS	<a href="http://www.nps.gov/">http://www.nps.gov/</a>
<b>Natural Resource Conservation Service</b>	<b>NRCS</b>	<a href="http://www.nrsc.usda.gov">http://www.nrsc.usda.gov</a>
US Access Board	Access Board	<a href="http://www.access-board.gov/">http://www.access-board.gov/</a>
US Army Corps of Engineers Seattle District	COE	<a href="http://www.nws.usace.army.mil/index.cfm">http://www.nws.usace.army.mil/index.cfm</a>
US Department of Justice	USDOJ	<a href="http://www.usdoj.gov/">http://www.usdoj.gov/</a>
US Department of Transportation Federal Highway Administration	FHWA	<a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a>
US Environmental Protection Agency	USEPA	<a href="http://www.epa.gov/">http://www.epa.gov/</a>
US Fish and Wildlife Service	USFWS	<a href="http://www.fws.gov/">http://www.fws.gov/</a>
USDA Forestry Service	FS	<a href="http://www.fs.fed.us/">http://www.fs.fed.us/</a>
USDA Natural Resources Conservation Service	NRCS	<a href="http://www.nrsc.usda.gov/">http://www.nrsc.usda.gov/</a>
Wilderness Information Network		<a href="http://www.wilderness.net/">http://www.wilderness.net/</a>

### WASHINGTON STATE

Agencies and Organizations	Acronym or Abbreviation	Web Site
Associated General Contractors of Washington	AGC	<a href="http://www.agcwa.com/">http://www.agcwa.com/</a>
Community, Trade, and Economic Development	CTED	<a href="http://www.cted.wa.gov/">http://www.cted.wa.gov/</a>
County Road Administration Board	CRAB	<a href="http://www.crab.wa.gov/">http://www.crab.wa.gov/</a>
Department of Ecology	Ecology	<a href="http://www.ecy.wa.gov/">http://www.ecy.wa.gov/</a>
Department of Fish and Wildlife	WDFW	<a href="http://www.wa.gov/wdfw/">http://www.wa.gov/wdfw/</a>
Department of Natural Resources	DNR	<a href="http://www.wa.gov/dnr/">http://www.wa.gov/dnr/</a>

Agencies and Organizations	Acronym or Abbreviation	Web Site
Department of Transportation	WSDOT	<a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a>
WSDOT Environmental Affairs Office	EAO	<a href="http://wsdot.wa.gov/eesc/environmental/">http://wsdot.wa.gov/eesc/environmental/</a>
Governor's Office	Governor	<a href="http://www.governor.wa.gov/">http://www.governor.wa.gov/</a>
Office of Community Development	OCD	<a href="http://www.ocd.wa.gov/">http://www.ocd.wa.gov/</a>
Puget Sound Regional Council	PSRC	<a href="http://www.psrc.org/">http://www.psrc.org/</a>
Statute Law Committee Office of the Code Reviser <i>Useful for viewing state statutes and regulations</i>	Statute Law Committee	<a href="http://slc.leg.wa.gov/">http://slc.leg.wa.gov/</a>

## REFERENCES BY SECTION

Section Number & Title		Web Sites Referenced in Section
100	Purpose and Overview	<a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/fasc/EngineeringPublications/">http://www.wsdot.wa.gov/fasc/EngineeringPublications/</a>
200	Transportation	<a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/ppsc/planning/">http://www.wsdot.wa.gov/ppsc/planning/</a> <a href="http://www.wsdot.wa.gov/ppsc/wtp/">http://www.wsdot.wa.gov/ppsc/wtp/</a>
210	Legal and Policy Framework for Transportation Planning	<a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/env_sum.htm">http://www.fhwa.dot.gov/environment/env_sum.htm</a> <a href="http://www.fhwa.dot.gov/tea21/index.htm">http://www.fhwa.dot.gov/tea21/index.htm</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf">http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf</a> <a href="http://www.wsdot.wa.gov/ppsc/planning/Manuel.pdf">http://www.wsdot.wa.gov/ppsc/planning/Manuel.pdf</a> <a href="http://www.wsdot.wa.gov/PPSC/WTP/">http://www.wsdot.wa.gov/PPSC/WTP/</a>
220	Relationships of State, Regional, and Local Transportation Planning	<a href="http://www.crab.wa.gov/">http://www.crab.wa.gov/</a> <a href="http://www.crab.wa.gov/grants/">http://www.crab.wa.gov/grants/</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/ppsc/planning/rtpo.pdf">http://www.wsdot.wa.gov/ppsc/planning/rtpo.pdf</a>
230	Washington's Transportation Plan	<a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/Aviation/">http://www.wsdot.wa.gov/Aviation/</a> <a href="http://www.wsdot.wa.gov/Ferries/">http://www.wsdot.wa.gov/Ferries/</a> <a href="http://www.wsdot.wa.gov/ppsc/wtp/">http://www.wsdot.wa.gov/ppsc/wtp/</a> <a href="http://www.wsdot.wa.gov/pubtran/">http://www.wsdot.wa.gov/pubtran/</a> <a href="http://www.wsdot.wa.gov/TA/HOMEPAGE/HLPHP.html">http://www.wsdot.wa.gov/TA/HOMEPAGE/HLPHP.html</a>
300	Programming and Project Definition Phase	<a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/ppsc/planning/">http://www.wsdot.wa.gov/ppsc/planning/</a>

Section Number & Title		Web Sites Referenced in Section
310	Project Programming	<a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/TA/ProgMgt/STIP/STIPHP.htm">http://www.wsdot.wa.gov/TA/ProgMgt/STIP/STIPHP.htm</a>
320	Project Definition and Budgeting	<a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/nepa/doc_ce.htm">http://www.fhwa.dot.gov/environment/nepa/doc_ce.htm</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm">http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm</a> <a href="http://www.wsdot.wa.gov/ppsc/planning/">http://www.wsdot.wa.gov/ppsc/planning/</a> <a href="http://www.wsdot.wa.gov/TA/Operations/LAG/LAGHP.HTM">http://www.wsdot.wa.gov/TA/Operations/LAG/LAGHP.HTM</a>
400	Project Development Phase	No web sites.
410	NEPA/SEPA Process Overview	<a href="http://ceq.eh.doe.gov/nepa/nepanet.htm">http://ceq.eh.doe.gov/nepa/nepanet.htm</a> <a href="http://search.leg.wa.gov/wslwac/WAC 468 TITLE/WAC 468 - 12 CHAPTER/WAC 468 - 12 Chapter.htm">http://search.leg.wa.gov/wslwac/WAC 468 TITLE/WAC 468 - 12 CHAPTER/WAC 468 - 12 Chapter.htm</a> <a href="http://slc.leg.wa.gov/">http://slc.leg.wa.gov/</a> <a href="http://www.ecy.wa.gov/">http://www.ecy.wa.gov/</a> <a href="http://www.ecy.wa.gov/programs/sea/sepa/e-review.html">http://www.ecy.wa.gov/programs/sea/sepa/e-review.html</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/00001.htm">http://www.fhwa.dot.gov/environment/00001.htm</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/index.htm">http://www.fhwa.dot.gov/environment/guidebook/index.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/fapg/cfr0771.htm">http://www.fhwa.dot.gov/legregs/directives/fapg/cfr0771.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadvs/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadvs/t664008a.htm</a> <a href="http://www.whitehouse.gov/CEQ/">http://www.whitehouse.gov/CEQ/</a>
411	Environmental Documentation and Procedures	<a href="http://ceq.eh.doe.gov/nepa/nepanet.htm">http://ceq.eh.doe.gov/nepa/nepanet.htm</a> <a href="http://ceq.eh.doe.gov/nepa/regs/ceq/toc_ceq.htm">http://ceq.eh.doe.gov/nepa/regs/ceq/toc_ceq.htm</a> <a href="http://www.ecy.wa.gov/">http://www.ecy.wa.gov/</a> <a href="http://www.ecy.wa.gov/programs/sea/sepa/197-11_toc.html">http://www.ecy.wa.gov/programs/sea/sepa/197-11_toc.html</a> <a href="http://www.ecy.wa.gov/programs/sea/sepa/lawandrule.htm">http://www.ecy.wa.gov/programs/sea/sepa/lawandrule.htm</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/alts.htm">http://www.fhwa.dot.gov/environment/alts.htm</a> <a href="http://www.fhwa.dot.gov/environment/mitig2.htm">http://www.fhwa.dot.gov/environment/mitig2.htm</a> <a href="http://www.fhwa.dot.gov/environment/nepa/document.htm">http://www.fhwa.dot.gov/environment/nepa/document.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadvs/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadvs/t664008a.htm</a>

Section Number & Title		Web Sites Referenced in Section
412	WSDOT Environmental Procedures	<a href="http://ceq.eh.doe.gov/nepa/regs/ceq/toc_ceq.htm">http://ceq.eh.doe.gov/nepa/regs/ceq/toc_ceq.htm</a> <a href="http://www.ecy.wa.gov/">http://www.ecy.wa.gov/</a> <a href="http://www.ecy.wa.gov/apps/sepa/">http://www.ecy.wa.gov/apps/sepa/</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch13.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch13.htm</a> <a href="http://www.fhwa.dot.gov/environment/pubinv2.htm">http://www.fhwa.dot.gov/environment/pubinv2.htm</a> <a href="http://www.fhwa.dot.gov/legsregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legsregs/directives/techadv/t664008a.htm</a> <a href="http://www.fhwa.dot.gov/reports/pittd/cover.htm">http://www.fhwa.dot.gov/reports/pittd/cover.htm</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a>
420	Earth (Geology and Soils)	<a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf">http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/haz_training.htm">http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/haz_training.htm</a> <a href="http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm">http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm</a>
425	Air	<a href="http://search.leg.wa.gov/wslrcw/RCW_70_TITLE/RCW_70_94_CHAPTER/RCW_70_94_chapter.htm">http://search.leg.wa.gov/wslrcw/RCW_70_TITLE/RCW_70_94_CHAPTER/RCW_70_94_chapter.htm</a> <a href="http://www.access.gpo.gov/nara/cfr/">http://www.access.gpo.gov/nara/cfr/</a> <a href="http://www.agcwa.com">http://www.agcwa.com</a> <a href="http://www.agcwa.com/public/education_foundation/class_schedule.asp">http://www.agcwa.com/public/education_foundation/class_schedule.asp</a> <a href="http://www.ecy.wa.gov/">http://www.ecy.wa.gov/</a> <a href="http://www.ecy.wa.gov/laws-rules/ecywac.html#air">http://www.ecy.wa.gov/laws-rules/ecywac.html#air</a> <a href="http://www.ecy.wa.gov/programs/air/local.html">http://www.ecy.wa.gov/programs/air/local.html</a> <a href="http://www.epa.gov/">http://www.epa.gov/</a> <a href="http://www.epa.gov/airs/criteria.html">http://www.epa.gov/airs/criteria.html</a> <a href="http://www.epa.gov/oar/">http://www.epa.gov/oar/</a> <a href="http://www.epa.gov/oar/caa/contents.html">http://www.epa.gov/oar/caa/contents.html</a> <a href="http://www.epa.gov/oar/oaqps/publicat.html">http://www.epa.gov/oar/oaqps/publicat.html</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch1.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch1.htm</a> <a href="http://www.fhwa.dot.gov/legsregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legsregs/directives/techadv/t664008a.htm</a> <a href="http://www.fhwa.dot.gov/tea21/index.htm">http://www.fhwa.dot.gov/tea21/index.htm</a> <a href="http://www.psrc.org/">http://www.psrc.org/</a> <a href="http://www.psrc.org/datapubs/pubs/publist_airquality.htm">http://www.psrc.org/datapubs/pubs/publist_airquality.htm</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf">http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm">http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm</a> <a href="http://www.wsdot.wa.gov/regions/Northwest/SpecialSvc/environmental/aae/default.htm">http://www.wsdot.wa.gov/regions/Northwest/SpecialSvc/environmental/aae/default.htm</a> <a href="http://www.wsdot.wa.gov/TA/Operations/Environmental/EnvironLeg.htm">http://www.wsdot.wa.gov/TA/Operations/Environmental/EnvironLeg.htm</a>
431	Water Quality / Surface Water	<a href="http://search.leg.wa.gov/wslrcw/RCW_90_TITLE/RCW_90_48_CHAPTER/RCW_90_48_chapter.htm">http://search.leg.wa.gov/wslrcw/RCW_90_TITLE/RCW_90_48_CHAPTER/RCW_90_48_chapter.htm</a> <a href="http://search.leg.wa.gov/wslrcw/RCW_90_TITLE/RCW_90_58_CHAPTER/RCW_90_58">http://search.leg.wa.gov/wslrcw/RCW_90_TITLE/RCW_90_58_CHAPTER/RCW_90_58</a>

Section Number & Title	Web Sites Referenced in Section
	<a href="#">chapter.htm</a> <a href="http://search.leg.wa.gov/wslrcw/RCW_90_TITLE/RCW_90_82_CHAPTER/RCW_90_82_chapter.htm">http://search.leg.wa.gov/wslrcw/RCW_90_TITLE/RCW_90_82_CHAPTER/RCW_90_82_chapter.htm</a> <a href="http://search.leg.wa.gov/wslwac/WAC_173_TITLE/WAC_173_26_CHAPTER/WAC_173_26_Chapter.htm">http://search.leg.wa.gov/wslwac/WAC_173_TITLE/WAC_173_26_CHAPTER/WAC_173_26_Chapter.htm</a> <a href="http://search.leg.wa.gov/wslwac/WAC_173_TITLE/WAC_173_201A_CHAPTER/WAC_173_201A_chAPTER.htm">http://search.leg.wa.gov/wslwac/WAC_173_TITLE/WAC_173_201A_CHAPTER/WAC_173_201A_chAPTER.htm</a> <a href="http://slc.leg.wa.gov/">http://slc.leg.wa.gov/</a> <a href="http://www.ecy.wa.gov/">http://www.ecy.wa.gov/</a> <a href="http://www.ecy.wa.gov/biblio/wac173201a.html">http://www.ecy.wa.gov/biblio/wac173201a.html</a> <a href="http://www.ecy.wa.gov/biblio/wq.html">http://www.ecy.wa.gov/biblio/wq.html</a> <a href="http://www.ecy.wa.gov/programs/sea/pac/index.html">http://www.ecy.wa.gov/programs/sea/pac/index.html</a> <a href="http://www.ecy.wa.gov/programs/sea/pac/jarpa.html">http://www.ecy.wa.gov/programs/sea/pac/jarpa.html</a> <a href="http://www.ecy.wa.gov/programs/sea/shorelan.html">http://www.ecy.wa.gov/programs/sea/shorelan.html</a> <a href="http://www.ecy.wa.gov/programs/wq/303d/2002-revised/2002-index.html">http://www.ecy.wa.gov/programs/wq/303d/2002-revised/2002-index.html</a> <a href="http://www.ecy.wa.gov/programs/wq/303d/305b%20report/305b-index.html">http://www.ecy.wa.gov/programs/wq/303d/305b%20report/305b-index.html</a> <a href="http://www.ecy.wa.gov/programs/wq/303d/index.html">http://www.ecy.wa.gov/programs/wq/303d/index.html</a> <a href="http://www.ecy.wa.gov/programs/wq/sand/index.html">http://www.ecy.wa.gov/programs/wq/sand/index.html</a> <a href="http://www.ecy.wa.gov/programs/wq/stormwater/sw_prmts.html">http://www.ecy.wa.gov/programs/wq/stormwater/sw_prmts.html</a> <a href="http://www.ecy.wa.gov/programs/wq/tmdl/index.html">http://www.ecy.wa.gov/programs/wq/tmdl/index.html</a> <a href="http://www.ecy.wa.gov/watershed/index.html">http://www.ecy.wa.gov/watershed/index.html</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/index.htm">http://www.fhwa.dot.gov/environment/guidebook/index.htm</a> <a href="http://www.fhwa.dot.gov/environment/h2o.htm">http://www.fhwa.dot.gov/environment/h2o.htm</a> <a href="http://www.fhwa.dot.gov/environment/h2o_shed.htm">http://www.fhwa.dot.gov/environment/h2o_shed.htm</a> <a href="http://www.fhwa.dot.gov/legsregs/directives/techadvs/t664008a.htm">http://www.fhwa.dot.gov/legsregs/directives/techadvs/t664008a.htm</a> <a href="http://www.fws.gov/">http://www.fws.gov/</a> <a href="http://www.nmfs.noaa.gov/">http://www.nmfs.noaa.gov/</a> <a href="http://www.nws.usace.army.mil/ers/index.html">http://www.nws.usace.army.mil/ers/index.html</a> <a href="http://www.nws.usace.army.mil/index.cfm">http://www.nws.usace.army.mil/index.cfm</a> <a href="http://www.nws.usace.army.mil/PublicMenu/Menu.cfm?sitename=REG&amp;pagename=Home_Page">http://www.nws.usace.army.mil/PublicMenu/Menu.cfm?sitename=REG&amp;pagename=Home_Page</a> <a href="http://www.nws.usace.army.mil/PublicMenu/Menu.cfm?sitename=REG&amp;pagename=NWP_2002">http://www.nws.usace.army.mil/PublicMenu/Menu.cfm?sitename=REG&amp;pagename=NWP_2002</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf">http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/">http://www.wsdot.wa.gov/eesc/environmental/programs/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/AlternativeMitigationPolicy2000.pdf">http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/AlternativeMitigationPolicy2000.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/docs/SWMP1.pdf">http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/docs/SWMP1.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/regcomp/doc_merger.htm">http://www.wsdot.wa.gov/eesc/environmental/programs/regcomp/doc_merger.htm</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/regcomp/docs/impagfin.pdf">http://www.wsdot.wa.gov/eesc/environmental/programs/regcomp/docs/impagfin.pdf</a>

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432	<b>Floodplain</b> <a href="http://slc.leg.wa.gov/">http://slc.leg.wa.gov/</a> <a href="http://www.ecy.wa.gov/">http://www.ecy.wa.gov/</a> <a href="http://www.ecy.wa.gov/biblio/forms/ecology-order.asp">http://www.ecy.wa.gov/biblio/forms/ecology-order.asp</a> <a href="http://www.ecy.wa.gov/programs/sea/grants/fcaap/intro.html">http://www.ecy.wa.gov/programs/sea/grants/fcaap/intro.html</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch6.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch6.htm</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/index.htm">http://www.fhwa.dot.gov/environment/guidebook/index.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/fapg/cfr0650a.htm">http://www.fhwa.dot.gov/legregs/directives/fapg/cfr0650a.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm</a> <a href="http://www.leg.wa.gov/pub/rcw/rcw_86_TITLE/rcw_86_TITLE/rcw_86_TITLE.htm">http://www.leg.wa.gov/pub/rcw/rcw_86_TITLE/rcw_86_TITLE/rcw_86_TITLE.htm</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm">http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm</a>
433	<b>Groundwater</b> <a href="http://search.leg.wa.gov/wslrcw/RCW_36_TITLE/RCW_36_70A_CHAPTER/RCW_36_70A_chapter.htm">http://search.leg.wa.gov/wslrcw/RCW_36_TITLE/RCW_36_70A_CHAPTER/RCW_36_70A_chapter.htm</a> <a href="http://search.leg.wa.gov/wslrcw/RCW_90_TITLE/RCW_90_48_CHAPTER/RCW_90_48_chapter.htm">http://search.leg.wa.gov/wslrcw/RCW_90_TITLE/RCW_90_48_CHAPTER/RCW_90_48_chapter.htm</a> <a href="http://search.leg.wa.gov/wslwac/WAC_173_TITLE/WAC_173-200_CHAPTER/WAC_173-200_CHAPTER.htm">http://search.leg.wa.gov/wslwac/WAC_173_TITLE/WAC_173-200_CHAPTER/WAC_173-200_CHAPTER.htm</a> <a href="http://search.leg.wa.gov/wslwac/WAC_173_TITLE/WAC_173-218_CHAPTER/WAC_173-218_CHAPTER.htm">http://search.leg.wa.gov/wslwac/WAC_173_TITLE/WAC_173-218_CHAPTER/WAC_173-218_CHAPTER.htm</a> <a href="http://search.leg.wa.gov/wslwac/WAC_246_TITLE/WAC_246-290_CHAPTER/WAC_246-290_CHAPTER.htm">http://search.leg.wa.gov/wslwac/WAC_246_TITLE/WAC_246-290_CHAPTER/WAC_246-290_CHAPTER.htm</a> <a href="http://slc.leg.wa.gov/">http://slc.leg.wa.gov/</a> <a href="http://www.ecy.wa.gov/">http://www.ecy.wa.gov/</a> <a href="http://www.ecy.wa.gov/biblio/96002.html">http://www.ecy.wa.gov/biblio/96002.html</a> <a href="http://www.ecy.wa.gov/biblio/97030.html">http://www.ecy.wa.gov/biblio/97030.html</a> <a href="http://www.ecy.wa.gov/laws-rules/ecyrcw.html">http://www.ecy.wa.gov/laws-rules/ecyrcw.html</a> <a href="http://www.ecy.wa.gov/laws-rules/ecywac.html">http://www.ecy.wa.gov/laws-rules/ecywac.html</a> <a href="http://www.ecy.wa.gov/programs/sea/pac/index.html">http://www.ecy.wa.gov/programs/sea/pac/index.html</a> <a href="http://www.ecy.wa.gov/programs/wq/grndwtr/cara/index.html">http://www.ecy.wa.gov/programs/wq/grndwtr/cara/index.html</a> <a href="http://www.ecy.wa.gov/programs/wq/grndwtr/index.html">http://www.ecy.wa.gov/programs/wq/grndwtr/index.html</a> <a href="http://www.ecy.wa.gov/programs/wq/grndwtr/uic/index.html">http://www.ecy.wa.gov/programs/wq/grndwtr/uic/index.html</a> <a href="http://www.ecy.wa.gov/programs/wr/rights/water-right-home.html">http://www.ecy.wa.gov/programs/wr/rights/water-right-home.html</a>

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	<a href="http://www.epa.gov/">http://www.epa.gov/</a> <a href="http://www.epa.gov/OGWDW/">http://www.epa.gov/OGWDW/</a> <a href="http://www.epa.gov/r10earth/maps/ssarx.html">http://www.epa.gov/r10earth/maps/ssarx.html</a> <a href="http://www.epa.gov/safewater/sdwa/sdwa.html">http://www.epa.gov/safewater/sdwa/sdwa.html</a> <a href="http://www.epa.gov/safewater/sdwa/text.html">http://www.epa.gov/safewater/sdwa/text.html</a> <a href="http://www.epa.gov/safewater/swp/swappg.html">http://www.epa.gov/safewater/swp/swappg.html</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch10.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch10.htm</a> <a href="http://www.fhwa.dot.gov/legsregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legsregs/directives/techadv/t664008a.htm</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf">http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/">http://www.wsdot.wa.gov/eesc/environmental/programs/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/docs/SWMP1.pdf">http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/docs/SWMP1.pdf</a> <a href="http://www.wsdot.wa.gov/fasc/EngineeringPublications/Manuals/Highway.pdf">http://www.wsdot.wa.gov/fasc/EngineeringPublications/Manuals/Highway.pdf</a> <a href="http://www.wsdot.wa.gov/fasc/EngineeringPublications/Manuals/IL4020.pdf">http://www.wsdot.wa.gov/fasc/EngineeringPublications/Manuals/IL4020.pdf</a> <a href="http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm">http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm</a> <a href="http://www4.law.cornell.edu/uscode/">http://www4.law.cornell.edu/uscode/</a> <a href="http://www4.law.cornell.edu/uscode/42/ch6A.html">http://www4.law.cornell.edu/uscode/42/ch6A.html</a>
436	<b>Wildlife, Fish, and Vegetation</b>  <a href="http://endangered.fws.gov/">http://endangered.fws.gov/</a> <a href="http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=2001_register&amp;docid=fr17ja01-142.pdf">http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=2001_register&amp;docid=fr17ja01-142.pdf</a> <a href="http://laws.fws.gov/lawsdigest/baldegl.html">http://laws.fws.gov/lawsdigest/baldegl.html</a> <a href="http://laws.fws.gov/lawsdigest/esact.html">http://laws.fws.gov/lawsdigest/esact.html</a> <a href="http://laws.fws.gov/lawsdigest/fwcoord.html">http://laws.fws.gov/lawsdigest/fwcoord.html</a> <a href="http://laws.fws.gov/lawsdigest/marmam.html">http://laws.fws.gov/lawsdigest/marmam.html</a> <a href="http://laws.fws.gov/lawsdigest/migtrea.html">http://laws.fws.gov/lawsdigest/migtrea.html</a> <a href="http://search.leg.wa.gov/wslrcw/RCW_90_TITLE/RCW_90_58_CHAPTER/RCW_90_58_chapter.htm">http://search.leg.wa.gov/wslrcw/RCW_90_TITLE/RCW_90_58_CHAPTER/RCW_90_58_chapter.htm</a> <a href="http://slc.leg.wa.gov/">http://slc.leg.wa.gov/</a> <a href="http://www.archives.gov/">http://www.archives.gov/</a> <a href="http://www.ecy.wa.gov/">http://www.ecy.wa.gov/</a> <a href="http://www.ecy.wa.gov/programs/sea/pac/enhan.htm">http://www.ecy.wa.gov/programs/sea/pac/enhan.htm</a> <a href="http://www.ecy.wa.gov/programs/sea/pac/jarpa.html">http://www.ecy.wa.gov/programs/sea/pac/jarpa.html</a> <a href="http://www.faa.gov/">http://www.faa.gov/</a> <a href="http://www.faa.gov/arp/ace/625/wildlife.htm">http://www.faa.gov/arp/ace/625/wildlife.htm</a>  <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch4.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch4.htm</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/index.htm">http://www.fhwa.dot.gov/environment/guidebook/index.htm</a> <a href="http://www.fhwa.dot.gov/legsregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legsregs/directives/techadv/t664008a.htm</a> <a href="http://www.fs.fed.us/">http://www.fs.fed.us/</a>



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	<a href="http://www.fs.fed.us/forum/nepa/nfmalaw.html">http://www.fs.fed.us/forum/nepa/nfmalaw.html</a> <a href="http://www.fs.fed.us/im/directives/">http://www.fs.fed.us/im/directives/</a> <a href="http://www.fws.gov/">http://www.fws.gov/</a> <a href="http://www.governor.wa.gov/">http://www.governor.wa.gov/</a> <a href="http://www.governor.wa.gov/esa/">http://www.governor.wa.gov/esa/</a> <a href="http://www.nmfs.noaa.gov/">http://www.nmfs.noaa.gov/</a> <a href="http://www.nmfs.noaa.gov/ess_fish_habitat.htm">http://www.nmfs.noaa.gov/ess_fish_habitat.htm</a> <a href="http://www.nwr.noaa.gov/">http://www.nwr.noaa.gov/</a> <a href="http://www.nwr.noaa.gov/1salmon/salmesa/pubs/1pgr.pdf">http://www.nwr.noaa.gov/1salmon/salmesa/pubs/1pgr.pdf</a> <a href="http://www.nws.usace.army.mil/index.cfm">http://www.nws.usace.army.mil/index.cfm</a> <a href="http://www.or.blm.gov/">http://www.or.blm.gov/</a> <a href="http://www.or.blm.gov/nwfp.htm">http://www.or.blm.gov/nwfp.htm</a> <a href="http://www.wa.gov/dnr/">http://www.wa.gov/dnr/</a> <a href="http://www.wa.gov/dnr/htdocs/fp/fpb/act.html">http://www.wa.gov/dnr/htdocs/fp/fpb/act.html</a> <a href="http://www.wa.gov/dnr/htdocs/fr/nhp/wanhp.html">http://www.wa.gov/dnr/htdocs/fr/nhp/wanhp.html</a> <a href="http://www.wa.gov/wdfw/">http://www.wa.gov/wdfw/</a> <a href="http://www.wa.gov/wdfw/hab/engineer/habeng.htm#upstrm">http://www.wa.gov/wdfw/hab/engineer/habeng.htm#upstrm</a> <a href="http://www.wa.gov/wdfw/hab/phspage.htm">http://www.wa.gov/wdfw/hab/phspage.htm</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf">http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/fossc/maint/4d_Rule/default.htm">http://www.wsdot.wa.gov/fossc/maint/4d_Rule/default.htm</a> <a href="http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm">http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm</a> <a href="http://www.wsdot.wa.gov/TA/Operations/Environmental/EnvironmentalHP.htm">http://www.wsdot.wa.gov/TA/Operations/Environmental/EnvironmentalHP.htm</a> <a href="http://www.wsdot.wa.gov/TA/Operations/Environmental/noeffectba.html">http://www.wsdot.wa.gov/TA/Operations/Environmental/noeffectba.html</a> <a href="http://www.wsdot.wa.gov/TA/Operations/LAG/LAGHP.HTM">http://www.wsdot.wa.gov/TA/Operations/LAG/LAGHP.HTM</a> <a href="http://www4.law.cornell.edu/uscode/">http://www4.law.cornell.edu/uscode/</a> <a href="http://www4.law.cornell.edu/uscode/16/1361.html">http://www4.law.cornell.edu/uscode/16/1361.html</a> <a href="http://www4.law.cornell.edu/uscode/16/661.html">http://www4.law.cornell.edu/uscode/16/661.html</a> <a href="http://www4.law.cornell.edu/uscode/16/668.html">http://www4.law.cornell.edu/uscode/16/668.html</a> <a href="http://www4.law.cornell.edu/uscode/16/703.html">http://www4.law.cornell.edu/uscode/16/703.html</a> <a href="http://www4.law.cornell.edu/uscode/16/ch35.html">http://www4.law.cornell.edu/uscode/16/ch35.html</a>
437	<b>Wetlands</b> <a href="http://search.leg.wa.gov/wslrcw/RCW_36_TITLE/RCW_36_70A_CHAPTER/RCW_36_70A_chapter.htm">http://search.leg.wa.gov/wslrcw/RCW_36_TITLE/RCW_36_70A_CHAPTER/RCW_36_70A_chapter.htm</a> <a href="http://search.leg.wa.gov/wslrcw/RCW_90_TITLE/RCW_90_48_CHAPTER/RCW_90_48_chapter.htm">http://search.leg.wa.gov/wslrcw/RCW_90_TITLE/RCW_90_48_CHAPTER/RCW_90_48_chapter.htm</a> <a href="http://search.leg.wa.gov/wslrcw/RCW_90_TITLE/RCW_90_58_CHAPTER/RCW_90_58_chapter.htm">http://search.leg.wa.gov/wslrcw/RCW_90_TITLE/RCW_90_58_CHAPTER/RCW_90_58_chapter.htm</a> <a href="http://search.leg.wa.gov/wslwac/WAC_173_TITLE/WAC_173_26_CHAPTER/WAC_173_26_Chapter.htm">http://search.leg.wa.gov/wslwac/WAC_173_TITLE/WAC_173_26_CHAPTER/WAC_173_26_Chapter.htm</a> <a href="http://search.leg.wa.gov/wslwac/WAC_173_TITLE/WAC_173_201A_CHAPTER/WAC_173_201A_CHAPTER.htm">http://search.leg.wa.gov/wslwac/WAC_173_TITLE/WAC_173_201A_CHAPTER/WAC_173_201A_CHAPTER.htm</a>

Section Number & Title	Web Sites Referenced in Section
	<a href="http://slc.leg.wa.gov/">http://slc.leg.wa.gov/</a> <a href="http://www.ecy.wa.gov/">http://www.ecy.wa.gov/</a> <a href="http://www.ecy.wa.gov/biblio/sea.html">http://www.ecy.wa.gov/biblio/sea.html</a> <a href="http://www.ecy.wa.gov/programs/sea/pac/index.html">http://www.ecy.wa.gov/programs/sea/pac/index.html</a> <a href="http://www.ecy.wa.gov/programs/sea/pac/jarpa.html">http://www.ecy.wa.gov/programs/sea/pac/jarpa.html</a> <a href="http://www.ecy.wa.gov/programs/sea/shorelan.html">http://www.ecy.wa.gov/programs/sea/shorelan.html</a> <a href="http://www.ecy.wa.gov/programs/sea/wetlan.html">http://www.ecy.wa.gov/programs/sea/wetlan.html</a> <a href="http://www.ecy.wa.gov/programs/sea/wetmitig/index.html">http://www.ecy.wa.gov/programs/sea/wetmitig/index.html</a> <a href="http://www.epa.gov/">http://www.epa.gov/</a> <a href="http://www.epa.gov/owow/wetlands/">http://www.epa.gov/owow/wetlands/</a> <a href="http://www.epa.gov/owow/wetlands/laws/">http://www.epa.gov/owow/wetlands/laws/</a> <a href="http://www.epa.gov/owow/wetlands/mitbankn.html">http://www.epa.gov/owow/wetlands/mitbankn.html</a> <a href="http://www.faa.gov/">http://www.faa.gov/</a> <a href="http://www.faa.gov/arp/ace/625/wildlife.htm">http://www.faa.gov/arp/ace/625/wildlife.htm</a> <a href="http://www.faa.gov/arp/pdf/5200-33.pdf">http://www.faa.gov/arp/pdf/5200-33.pdf</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/index.htm">http://www.fhwa.dot.gov/environment/guidebook/index.htm</a> <a href="http://www.fhwa.dot.gov/environment/wetland/index.htm">http://www.fhwa.dot.gov/environment/wetland/index.htm</a> <a href="http://www.fhwa.dot.gov/environment/wetland/wet_abs.htm">http://www.fhwa.dot.gov/environment/wetland/wet_abs.htm</a> <a href="http://www.fhwa.dot.gov/legsregs/directives/techadvs/t664008a.htm">http://www.fhwa.dot.gov/legsregs/directives/techadvs/t664008a.htm</a> <a href="http://www.fws.gov/">http://www.fws.gov/</a> <a href="http://www.fws.gov/r9dhcbfa/hmpol.htm">http://www.fws.gov/r9dhcbfa/hmpol.htm</a> <a href="http://www.nws.usace.army.mil/ers/index.html">http://www.nws.usace.army.mil/ers/index.html</a> <a href="http://www.nws.usace.army.mil/index.cfm">http://www.nws.usace.army.mil/index.cfm</a> <a href="http://www.nws.usace.army.mil/PublicMenu/Menu.cfm?sitename=REG&amp;pagename=Home">http://www.nws.usace.army.mil/PublicMenu/Menu.cfm?sitename=REG&amp;pagename=Home</a> <a href="http://www.nws.usace.army.mil/PublicMenu/Menu.cfm?sitename=REG&amp;pagename=NWP_2002">http://www.nws.usace.army.mil/PublicMenu/Menu.cfm?sitename=REG&amp;pagename=NWP_2002</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf">http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/biology/bio_wetdelmit.htm">http://www.wsdot.wa.gov/eesc/environmental/programs/biology/bio_wetdelmit.htm</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/AlternativeMitigationPolicy2000.pdf">http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/AlternativeMitigationPolicy2000.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/Banking_Defn.doc">http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/Banking_Defn.doc</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/bankWSDOTWBMOA_FinalMOA(1=4=94).doc">http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/bankWSDOTWBMOA_FinalMOA(1=4=94).doc</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/bpjtool.pdf">http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/bpjtool.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/success.html.doc">http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/success.html.doc</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/Wetland_Preservation.doc">http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/Wetland_Preservation.doc</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/WetlandHA.pdf">http://www.wsdot.wa.gov/eesc/environmental/programs/biology/docs/WetlandHA.pdf</a>

Section Number & Title		Web Sites Referenced in Section
		<a href="http://www.wsdot.wa.gov/eesc/environmental/programs/regcomp/doc_merger.htm">http://www.wsdot.wa.gov/eesc/environmental/programs/regcomp/doc_merger.htm</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/watershed/wspi/WSPI.htm">http://www.wsdot.wa.gov/eesc/environmental/programs/watershed/wspi/WSPI.htm</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/wetmon/wetmon.htm">http://www.wsdot.wa.gov/eesc/environmental/programs/wetmon/wetmon.htm</a> <a href="http://www.wsdot.wa.gov/fasc/EngineeringPublications/manuals/Plnsprep.pdf">http://www.wsdot.wa.gov/fasc/EngineeringPublications/manuals/Plnsprep.pdf</a> <a href="http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm">http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm</a> <a href="http://www4.law.cornell.edu/uscode/">http://www4.law.cornell.edu/uscode/</a> <a href="http://www4.law.cornell.edu/uscode/16/ch33.html">http://www4.law.cornell.edu/uscode/16/ch33.html</a> <a href="http://www4.law.cornell.edu/uscode/16/ch35.html">http://www4.law.cornell.edu/uscode/16/ch35.html</a> <a href="http://www4.law.cornell.edu/uscode/33/ch26.html">http://www4.law.cornell.edu/uscode/33/ch26.html</a>
	<b>Exhibit 437-4</b>	<a href="http://www.fws.gov/r9dhcbfa/HPMPOL.HTM">http://www.fws.gov/r9dhcbfa/HPMPOL.HTM</a>
<b>440</b>	<b>Energy</b>	<a href="http://www.epa.gov/globalwarming/emissions/national/index.html">http://www.epa.gov/globalwarming/emissions/national/index.html</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf">http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf</a> <a href="http://www.wsdot.wa.gov/Regions/Northwest/SpecialSvc/environmental/">http://www.wsdot.wa.gov/Regions/Northwest/SpecialSvc/environmental/</a> <a href="http://www.wsdot.wa.gov/regions/Northwest/SpecialSvc/environmental/aae/default.htm">http://www.wsdot.wa.gov/regions/Northwest/SpecialSvc/environmental/aae/default.htm</a>
<b>446</b>	<b>Noise</b>	<a href="http://wsdot.wa.gov/eesc/environmental/">http://wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.access.gpo.gov/nara/cfr/">http://www.access.gpo.gov/nara/cfr/</a> <a href="http://www.access.gpo.gov/nara/cfr/waisidx_01/23cfr772_01.html">http://www.access.gpo.gov/nara/cfr/waisidx_01/23cfr772_01.html</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/AB_NOISE.htm">http://www.fhwa.dot.gov/environment/AB_NOISE.htm</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch8.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch8.htm</a> <a href="http://www.fhwa.dot.gov/environment/noise/index.htm">http://www.fhwa.dot.gov/environment/noise/index.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadv/t616002.htm">http://www.fhwa.dot.gov/legregs/directives/techadv/t616002.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm</a> <a href="http://www.fta.dot.gov/fta/library/planning/enviro/noise/ftanoise.html">http://www.fta.dot.gov/fta/library/planning/enviro/noise/ftanoise.html</a> <a href="http://www.fta.dot.gov/library/planning/enviro/">http://www.fta.dot.gov/library/planning/enviro/</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf">http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/environmental">http://www.wsdot.wa.gov/eesc/environmental</a> <a href="http://www.wsdot.wa.gov/regions/Northwest/SpecialSvc/environmental/aae/default.htm">http://www.wsdot.wa.gov/regions/Northwest/SpecialSvc/environmental/aae/default.htm</a> <a href="http://www.wsdot.wa.gov/regions/Northwest/SpecialSvc/environmental/aae/policies.htm">http://www.wsdot.wa.gov/regions/Northwest/SpecialSvc/environmental/aae/policies.htm</a> <a href="http://www4.law.cornell.edu/uscode/">http://www4.law.cornell.edu/uscode/</a> <a href="http://www4.law.cornell.edu/uscode/23/109.html">http://www4.law.cornell.edu/uscode/23/109.html</a> <a href="http://www4.law.cornell.edu/uscode/42/4901.html">http://www4.law.cornell.edu/uscode/42/4901.html</a>

Section Number & Title	Web Sites Referenced in Section
<b>447</b> <b>Hazardous Materials</b>	<a href="http://www.agcwa.com/">http://www.agcwa.com/</a> <a href="http://www.agcwa.com/Public/education_foundation/coned/class_schedule_materials.asp">http://www.agcwa.com/Public/education_foundation/coned/class_schedule_materials.asp</a> <a href="http://www.ecy.wa.gov/">http://www.ecy.wa.gov/</a> <a href="http://www.ecy.wa.gov/biblio/9130.html">http://www.ecy.wa.gov/biblio/9130.html</a> <a href="http://www.ecy.wa.gov/permit.html">http://www.ecy.wa.gov/permit.html</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch7.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch7.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadvs/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadvs/t664008a.htm</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf">http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/docs/doeagree.pdf">http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/docs/doeagree.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/haz.htm">http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/haz.htm</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/haz_docpubs.htm">http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/haz_docpubs.htm</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/regcomp/docs/impagfin.pdf">http://www.wsdot.wa.gov/eesc/environmental/programs/regcomp/docs/impagfin.pdf</a> <a href="http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm">http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm</a> <a href="http://www.wsdot.wa.gov/TA/Operations/Environmental/EnvironLeg.htm">http://www.wsdot.wa.gov/TA/Operations/Environmental/EnvironLeg.htm</a>
<b>Exhibit 447-7</b>	<a href="http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/haz_docpubs.htm">http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/haz_docpubs.htm</a>
<b>451</b> <b>Land Use and Growth Management</b>	<a href="http://www.cted.wa.gov/">http://www.cted.wa.gov/</a> <a href="http://www.faa.gov/">http://www.faa.gov/</a> <a href="http://www.faa.gov/arp/birdstrike/appendC.pdf">http://www.faa.gov/arp/birdstrike/appendC.pdf</a> <a href="http://www.faa.gov/arp/pdf/5200-33.pdf">http://www.faa.gov/arp/pdf/5200-33.pdf</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/index.htm">http://www.fhwa.dot.gov/environment/guidebook/index.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadvs/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadvs/t664008a.htm</a> <a href="http://www.oed.wa.gov/info/lbg/growth">http://www.oed.wa.gov/info/lbg/growth</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm">http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm</a>
<b>452</b> <b>Coastal Areas and Shorelines</b>	<a href="http://www.ecy.wa.gov/">http://www.ecy.wa.gov/</a> <a href="http://www.ecy.wa.gov/biblio/wac17327.html">http://www.ecy.wa.gov/biblio/wac17327.html</a> <a href="http://www.ecy.wa.gov/programs/sea/pac/jarpa.html">http://www.ecy.wa.gov/programs/sea/pac/jarpa.html</a> <a href="http://www.ecy.wa.gov/programs/sea/shorelan.html">http://www.ecy.wa.gov/programs/sea/shorelan.html</a> <a href="http://www.ecy.wa.gov/programs/sea/swce/index.html">http://www.ecy.wa.gov/programs/sea/swce/index.html</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/index.htm">http://www.fhwa.dot.gov/environment/guidebook/index.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadvs/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadvs/t664008a.htm</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm">http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm</a> <a href="http://www4.law.cornell.edu/uscode/">http://www4.law.cornell.edu/uscode/</a> <a href="http://www4.law.cornell.edu/uscode/16/ch33.html">http://www4.law.cornell.edu/uscode/16/ch33.html</a>

Section Number & Title		Web Sites Referenced in Section
453	Wild and Scenic Rivers	<a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/">http://www.fhwa.dot.gov/environment/</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch15.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch15.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm</a> <a href="http://www.nps.gov/rivers/">http://www.nps.gov/rivers/</a> <a href="http://www.wilderness.net/">http://www.wilderness.net/</a> <a href="http://www.wilderness.net/nwps/legis/default.cfm">http://www.wilderness.net/nwps/legis/default.cfm</a> <a href="http://www4.law.cornell.edu/uscode/">http://www4.law.cornell.edu/uscode/</a> <a href="http://www4.law.cornell.edu/uscode/16/ch27.html">http://www4.law.cornell.edu/uscode/16/ch27.html</a>
454	Agricultural and Farmland	<a href="http://nrcs.us.gov">http://nrcs.us.gov</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm</a> <a href="http://www.nrcs.usda.gov/">http://www.nrcs.usda.gov/</a> <a href="http://www.nrcs.usda.gov/programs/fppa/AD1006.PDF">http://www.nrcs.usda.gov/programs/fppa/AD1006.PDF</a> <a href="http://www.nrcs.usda.gov/programs/fppa/CPA106.pdf">http://www.nrcs.usda.gov/programs/fppa/CPA106.pdf</a> <a href="http://www.nrcs.usda.gov/programs/lesa/cfr/7cfr658.html">http://www.nrcs.usda.gov/programs/lesa/cfr/7cfr658.html</a> <a href="http://www.wa.nrcs.usda.gov/">http://www.wa.nrcs.usda.gov/</a>
455	Public Lands (Section 4(f), 6(f), and Forests)	<a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch16.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v1ch16.htm</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch15.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch15.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm</a> <a href="http://www.fs.fed.us/">http://www.fs.fed.us/</a> <a href="http://www.fs.fed.us/im/directives/field/r6pnw/fsm/1500/1561_9b.doc">http://www.fs.fed.us/im/directives/field/r6pnw/fsm/1500/1561_9b.doc</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm">http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm</a>
456	Historic, Cultural, and Archaeological Resources	<a href="http://www.achp.gov/">http://www.achp.gov/</a> <a href="http://www.achp.gov/work106.html">http://www.achp.gov/work106.html</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch10.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch10.htm</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch14.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch14.htm</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch15.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch15.htm</a> <a href="http://www.fhwa.dot.gov/environment/te.htm">http://www.fhwa.dot.gov/environment/te.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm</a> <a href="http://www.ocd.wa.gov/">http://www.ocd.wa.gov/</a> <a href="http://www.ocd.wa.gov/info/lgd/oahp/">http://www.ocd.wa.gov/info/lgd/oahp/</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf">http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf</a> <a href="http://www.wsdot.wa.gov/TA/Operations/LAG/">http://www.wsdot.wa.gov/TA/Operations/LAG/</a> <a href="http://www.wsdot.wa.gov/TA/Operations/LAG/LAGHP.HTM">http://www.wsdot.wa.gov/TA/Operations/LAG/LAGHP.HTM</a>
	Exhibit 456-6	<a href="http://www.achp.gov/">http://www.achp.gov/</a>

Section Number & Title		Web Sites Referenced in Section
	<b>Exhibit 456-11</b>	<a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/eesc/CAE/pse/PLANTBCN.HTM">http://www.wsdot.wa.gov/eesc/CAE/pse/PLANTBCN.HTM</a> <a href="http://www.wsdot.wa.gov/eesc/design/projectdev/gspage1.htm">http://www.wsdot.wa.gov/eesc/design/projectdev/gspage1.htm</a>
457	<b>Social and Economic Conditions</b>	<a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/ejustice/lib/ejbib.pdf">http://www.fhwa.dot.gov/environment/ejustice/lib/ejbib.pdf</a> <a href="http://www.fhwa.dot.gov/environment/ejustice/lib/index.htm">http://www.fhwa.dot.gov/environment/ejustice/lib/index.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm</a> <a href="http://www.fhwa.dot.gov/realstate/act.htm">http://www.fhwa.dot.gov/realstate/act.htm</a>
458	<b>Environmental Justice</b>	<a href="http://www.epa.gov/docs/oejpubs/execordr.txt.html">http://www.epa.gov/docs/oejpubs/execordr.txt.html</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/ej2.htm">http://www.fhwa.dot.gov/environment/ej2.htm</a> <a href="http://www.fhwa.dot.gov/environment/ejustice/lib/index.htm">http://www.fhwa.dot.gov/environment/ejustice/lib/index.htm</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch16.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch16.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a>
459	<b>Visual</b>	<a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch1.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch1.htm</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch14.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch14.htm</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/index.htm">http://www.fhwa.dot.gov/environment/guidebook/index.htm</a> <a href="http://www.fhwa.dot.gov/environment/te.htm">http://www.fhwa.dot.gov/environment/te.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm</a> <a href="http://www.fhwa.dot.gov/legregs/legislat.html">http://www.fhwa.dot.gov/legregs/legislat.html</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf">http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/cae/design/roadside/VisQual.htm">http://www.wsdot.wa.gov/eesc/cae/design/roadside/VisQual.htm</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/fasc/EngineeringPublications/library.htm">http://www.wsdot.wa.gov/fasc/EngineeringPublications/library.htm</a> <a href="http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm">http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm</a>

Section Number & Title		Web Sites Referenced in Section
460	Transportation	<a href="http://www.access-board.gov/">http://www.access-board.gov/</a> <a href="http://www.epa.gov/globalwarming/">http://www.epa.gov/globalwarming/</a> <a href="http://www.epa.gov/globalwarming/emissions/national/index.html">http://www.epa.gov/globalwarming/emissions/national/index.html</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/legregs/directives/fapg/cfr0652.htm">http://www.fhwa.dot.gov/legregs/directives/fapg/cfr0652.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm</a> <a href="http://www.usdoj.gov/">http://www.usdoj.gov/</a> <a href="http://www.usdoj.gov/crt/ada/adahom1.htm">http://www.usdoj.gov/crt/ada/adahom1.htm</a> <a href="http://www.usdoj.gov/crt/ada/publicat.htm">http://www.usdoj.gov/crt/ada/publicat.htm</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf">http://www.wsdot.wa.gov/commission/ReportsPlans/Catalog.pdf</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm">http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm</a> <a href="http://www.wsdot.wa.gov/regions/Northwest/SpecialSvc/environmental/aae/default.htm">http://www.wsdot.wa.gov/regions/Northwest/SpecialSvc/environmental/aae/default.htm</a>
470	Public Services and Utilities	<a href="http://search.leg.wa.gov/wslrcw/RCW_47_TITLE/RCW_47_44_CHAPTER/RCW_47_44_chapter.htm">http://search.leg.wa.gov/wslrcw/RCW_47_TITLE/RCW_47_44_CHAPTER/RCW_47_44_chapter.htm</a> <a href="http://search.leg.wa.gov/wslwac/WAC_468_TITLE/WAC_468_34_CHAPTER/WAC_468_34_Chapter.htm">http://search.leg.wa.gov/wslwac/WAC_468_TITLE/WAC_468_34_CHAPTER/WAC_468_34_Chapter.htm</a> <a href="http://www.access.gpo.gov/nara/cfr/">http://www.access.gpo.gov/nara/cfr/</a> <a href="http://www.access.gpo.gov/nara/cfr/waisidx_01/23cfr645_01.html">http://www.access.gpo.gov/nara/cfr/waisidx_01/23cfr645_01.html</a> <a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm</a> <a href="http://www.leg.wa.gov/">http://www.leg.wa.gov/</a> <a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/fasc/EngineeringPublications/library.htm">http://www.wsdot.wa.gov/fasc/EngineeringPublications/library.htm</a> <a href="http://www.wsdot.wa.gov/fasc/EngineeringPublications/Manuals/UtilitiesManual.pdf">http://www.wsdot.wa.gov/fasc/EngineeringPublications/Manuals/UtilitiesManual.pdf</a> <a href="http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm">http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm</a>
480	Cumulative	<a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a> <a href="http://www.fhwa.dot.gov/environment/2nd_cml.htm">http://www.fhwa.dot.gov/environment/2nd_cml.htm</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch6.htm">http://www.fhwa.dot.gov/environment/guidebook/chapters/v2ch6.htm</a> <a href="http://www.fhwa.dot.gov/environment/guidebook/index.htm">http://www.fhwa.dot.gov/environment/guidebook/index.htm</a> <a href="http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm">http://www.fhwa.dot.gov/legregs/directives/techadv/t664008a.htm</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a>
500	Post-Design Phase Overview	No web sites listed
510	Construction Phase	<a href="http://www.ecy.wa.gov/">http://www.ecy.wa.gov/</a> <a href="http://www.ecy.wa.gov/programs/wq/stormwater/sw_prmts.html">http://www.ecy.wa.gov/programs/wq/stormwater/sw_prmts.html</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/haz_docpubs.htm">http://www.wsdot.wa.gov/eesc/environmental/programs/hazwqec/haz_docpubs.htm</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/regcomp/docs/impagfin.pdf">http://www.wsdot.wa.gov/eesc/environmental/programs/regcomp/docs/impagfin.pdf</a> <a href="http://www.wsdot.wa.gov/regions/Northwest/SpecialSvc/environmental/aae/default.htm">http://www.wsdot.wa.gov/regions/Northwest/SpecialSvc/environmental/aae/default.htm</a>



Section Number & Title		Web Sites Referenced in Section
520	Maintenance Phase	<a href="http://www.wsdot.wa.gov/">http://www.wsdot.wa.gov/</a> <a href="http://www.wsdot.wa.gov/eesc/cae/design/roadside/rm.htm">http://www.wsdot.wa.gov/eesc/cae/design/roadside/rm.htm</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/programs/regcomp/docs/impagfin.pdf">http://www.wsdot.wa.gov/eesc/environmental/programs/regcomp/docs/impagfin.pdf</a> <a href="http://www.wsdot.wa.gov/fasc/EngineeringPublications/library.htm">http://www.wsdot.wa.gov/fasc/EngineeringPublications/library.htm</a> <a href="http://www.wsdot.wa.gov/FASC/EngineeringPublications/Manuals/Highway.pdf">http://www.wsdot.wa.gov/FASC/EngineeringPublications/Manuals/Highway.pdf</a> <a href="http://www.wsdot.wa.gov/fasc/EngineeringPublications/Manuals/IL4020.pdf">http://www.wsdot.wa.gov/fasc/EngineeringPublications/Manuals/IL4020.pdf</a> <a href="http://www.wsdot.wa.gov/fossc/maint/4d_rule/">http://www.wsdot.wa.gov/fossc/maint/4d_rule/</a> <a href="http://www.wsdot.wa.gov/regions/Northwest/SpecialSvc/environmental/aae/default.htm">http://www.wsdot.wa.gov/regions/Northwest/SpecialSvc/environmental/aae/default.htm</a>
530	Surplus Real Property Disposal	No web sites listed
	Glossary	<a href="http://www.epa.gov/OCEPAterms/intro.htm">http://www.epa.gov/OCEPAterms/intro.htm</a>
	Interagency Agreements and Memoranda	<a href="http://www.fhwa.dot.gov/environment/">http://www.fhwa.dot.gov/environment/</a> <a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a>

## ***Environmental Statutes and Regulations***

<b>Abbreviation</b>	<b>Common Name</b>	<b>Codification</b>	<b>Implementing Regulations</b>	<b>Manual Sections</b>
	Abandoned and Historic Cemeteries Act	RCW 68.04-05		<a href="#">456</a>
	American Indian Religious Freedom Act, 1978	PL 95-341; 92 Stat. 469		<a href="#">456</a>
ADA	Americans with Disabilities Act	PL 336-101	23 CFR 652	<a href="#">460</a>
	Antiquities Act, 1906	16 USC 431		<a href="#">456</a>
	Archaeological and Historic Preservation Act, 1974	16 USC 469; PL 93-291		<a href="#">456</a>
ARPA	Archaeological Resources Protection Act, 1979	16 USC 470; PL 93-95	43 CFR 3	<a href="#">456</a>
	Aviation Siting	RCW 36-71A-510		<a href="#">460</a>
	Bald and Golden Eagle Protection Act	USC 16-5a	WAC 232-12-292	<a href="#">436</a>
	Bicycle and Pedestrian Traffic	RCW 47.30		<a href="#">460</a>
	Civil Rights Act	USC 42-20 et al.		<a href="#">458</a>
CWA & CWAA	Clean Air Act and Amendments	42 USC 7901 et seq.		<a href="#">210</a> , <a href="#">425</a> , <a href="#">447</a>
CAWA	Clean Air Washington Act	RCW 70.94	WAC 173-420	<a href="#">210</a> , <a href="#">425</a> , <a href="#">454</a>
CWA	Clean Water Act (Water Pollution Control Act)	33 USC 1251 et seq.	33 CFR 26	<a href="#">210</a> , <a href="#">431</a> , <a href="#">433</a> , <a href="#">437</a> , <a href="#">447</a> , <a href="#">452</a> , <a href="#">520</a>
	Clean Water Act (Washington)	RCW 90.48	WAC 173-200; WAC 173-201A	<a href="#">431</a> , <a href="#">433</a> , <a href="#">437</a> , <a href="#">447</a>
CAO	Critical (or Sensitive) Areas Ordinances	City & County		<a href="#">431</a> , <a href="#">436</a> , <a href="#">452</a>
CZMA	Coastal Zone Management Act	16 USC 1451	15 CFR 923-930	<a href="#">431</a> , <a href="#">437</a> , <a href="#">452</a>
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	42 USC 103		<a href="#">447</a>
CARA	Critical Aquifer Recharge Ordinances	City & County (RCW 36.70A)		<a href="#">433</a>
	Dangerous Waste Regulations	RCW 70-105	WAC 173-303	<a href="#">447</a>
Section 4(f)	Department of Transportation Act, Section 4(f)	49 USC 303	23 CFR 771	<a href="#">411</a> , <a href="#">453</a> , <a href="#">455</a> , <a href="#">456</a>
	Design, Arts, and Architecture Program	DOT Order 5610C, revised		<a href="#">455</a> , <a href="#">456</a>
	Design Standards – Vehicular Traffic	RCW 47.24; RCW 47.18-04	WAC 468-04	<a href="#">460</a>
	Diversity and Equity	Governor's EO 93-07		<a href="#">458</a>
	Economic Recovery Tax Act, 1981	PL 97-34		<a href="#">456</a>
ESA	Endangered Species Act, 1973	16 USC 35		<a href="#">431</a> , <a href="#">436</a> , <a href="#">437</a> , <a href="#">520</a>
	Environmental Justice	President's EO 12898		<a href="#">458</a>
	FAA Regulations		FAR Part 77.13(a)(2)	<a href="#">460</a>
	Farmlands Preservation	Governor's EO 80-01		<a href="#">454</a>
FPPA	Farmlands Protection Policy Act	7 USC 4201-4209		<a href="#">454</a>
	Federal Highway Act	23 USC 109(h)		<a href="#">458</a>
	Fish and Wildlife Coordination Act	16 USC 661-667(e)		<a href="#">436</a>
	Fish Passage Law	RCW 77.55.060		<a href="#">436</a>
Magnuson-	Fisheries Conservation & Management Act, 1976	16 USC 1800		<a href="#">436</a>

Abbreviation	Common Name	Codification	Implementing Regulations	Manual Sections
Stevens Act				
	Flood Control Management Act	RCW 89.09		<a href="#">432</a>
	Floodplain Management	President's EO 11988		<a href="#">432</a>
	Forest Management Act	16 USC 1604(g)(3)(B)		<a href="#">436</a>
	Forest Practices Act	RCW 76.09.020	WAC 222-20	<a href="#">436, 455</a>
	Franchises on State Highways	RCW 47.44		<a href="#">470</a>
GMA	Growth Management Act, 1990 Growth Strategies Act, 1991	RCW 36.70a		<a href="#">210, 433, 437, 451, 454, 460</a>
	Hazardous Waste Management Act (Dangerous Waste Regulations)	RCW 70-105	WAC 173-303	<a href="#">447</a>
	Highway Beautification Act, 1965		23 CFR 750	<a href="#">459</a>
	Highway Beautification Act (Washington)	RCW 47-40.010		<a href="#">459</a>
Section 106	Historic Preservation Act, 1966; amended 1976, 1980, 1992	16 USC 470, PL 89-655	30 CFR 800	<a href="#">411, 456</a>
	Indian Graves and Records Act	RCW 2744		<a href="#">456</a>
ISTEA	Intermodal Surface Transportation Efficiency Act, 1991	23 USC 101(g) – 133(b)	40 CFR 93 (CEQ) 23 CFR 450 (FHWA)	<a href="#">210, 425, 456, 459</a>
Section 6(f)	Land & Water Conservation Funds Act	16 USC 460L 4-11; PL 88-578	WAC 286-24-050	<a href="#">411, 455</a>
	Lead-Based Paint Regulations		WAC 173-303, 296-62 & 296-155	<a href="#">447</a>
	Marine Mammal Protection Act	USC 16-31		<a href="#">436</a>
	Migratory Bird Treaty Act	USC 16-7-11		<a href="#">436</a>
	Model Toxics Control Act	RCW 70-105D	WAC 173-340	<a href="#">447</a>
NEPA	National Environmental Policy Act	42 USC 4231; PL 91-90	40 CFR Part 1500.1 (CEQ) 23 CFR 771 (FHWA)	<a href="#">320, 410 - 480</a>
	Native American Graves Protection and Repatriation Act	PL 101-601; 104 Stat. 3048		<a href="#">456</a>
	Noise Control Act, 1972	42 USC 4901 et seq. 23 USC 109i	24 CFR 772	<a href="#">446</a>
	Noise Control Act, 1974 (Washington)	RCW 70-107 RCW 88.12 (Vessels)	WAC 173-58, 60, 62	<a href="#">446</a>
OSHA	Occupational Safety and Health Act		29 CFR 1910; WAC 296-62	<a href="#">447, 510</a>
	Rail Traffic Easements	RCW 47.12.026		<a href="#">460</a>
RCRA	Resource Conservation and Recovery Act and Hazardous Waste Amendments		40 CFR 280, 281; 40 CFR 61 WAC 173-303	<a href="#">447, 520</a>
	Rivers and Harbors Act, 1899	33 USC 403		<a href="#">431, 452, 520</a>
	Safe Drinking Water Act, 1974 Amendments, 1986 and 1999	42 USC 6A; PL 104-182		<a href="#">433, 447</a>
	Salmon Restoration Act (Washington)			<a href="#">210, 436</a>
	Scenic Rivers System	RCW 79.72	WAC 173-204	<a href="#">453</a>

Abbreviation	Common Name	Codification	Implementing Regulations	Manual Sections
SMA	Shoreline Management Act	RCW 90.58	WAC 173.26, WAC 173.19	<a href="#">431</a> , <a href="#">436</a> , <a href="#">437</a> , <a href="#">452</a>
	Section 4(f)	See Dept. of Transportation Act	23 CFR 771.135(d)	<a href="#">411</a> , <a href="#">453</a> , <a href="#">455</a> , <a href="#">456</a>
	Section 6(f)	See Land & Conservation Funds Act	16 USC 460L 4-11; PL 88-578 WAC 286-24-050	<a href="#">411</a> , <a href="#">456</a>
	Section 106	See Historic Preservation Act	30 CFR 800	<a href="#">411</a> , <a href="#">456</a>
	Solid Waste Management Act	RCW 70.95	WAC 173-304	<a href="#">447</a>
SEPA	State Environmental Policy Act	RCW 43-21C	WAC 197-11 (Ecology) WAC 468-12 (WSDOT)	<a href="#">320</a> <a href="#">410</a> through <a href="#">480</a> , <a href="#">520</a>
STURAA	Surface Transportation & Uniform Relocation Assistance Act, 1987	23 USC 144 (o)		<a href="#">456</a>
TRA	Tax Reform Act, 1986	PL 99-514		<a href="#">456</a>
TSCA	Toxic Substances Control Act	15 USC 2601-2629		<a href="#">447</a>
	Trails System Act	16 USC 1241 – 1249		<a href="#">453</a>
TEA-21	Transportation Equity Act for the 21 <sup>st</sup> Century	PL 105-178		<a href="#">210</a> , <a href="#">310</a> , <a href="#">456</a>
UIC	Underground Injection Control	RCW 43-21A.445	WAC 173-218	<a href="#">433</a>
	Underground Storage Tanks		WAC 173-360, WAC 51-34-7902.1.7.2.3	<a href="#">447</a>
	Uniform Relocation Assistance and Real Property Acquisition Act			<a href="#">457</a>
	Utility Franchises and Permits	RCW 47.44	WAC 468.34	<a href="#">470</a>
	Utility Relocation Reimbursement		23 CFR 645	<a href="#">470</a>
	Water Pollution Control Act (Clean Water Act)	33 USC 1251 et seq.	33 CFR 26	<a href="#">210</a> , <a href="#">431</a> , <a href="#">433</a> , <a href="#">437</a> , <a href="#">447</a> , <a href="#">452</a> , <a href="#">520</a>
	Water Quality Standards	RCW 90.48	WAC 173-210 (surface & marine water) WAC 173-200 (groundwater)	<a href="#">431</a> , <a href="#">433</a>
	Wellhead Protection		WAC 246.290	<a href="#">433</a>
	Wetland Mitigation Banking	RCW 90.84	WAC 173-700	<a href="#">437</a>
	Wetland Protection	President's EO 11990 DOT Order 5660.1A Governor's EO 89-10 & 90-04		<a href="#">437</a>
	Wild and Scenic Rivers Act	16 USC 28		<a href="#">453</a>
	Wilderness Act	16 USC 1131-1136		<a href="#">453</a>



## **Index of Interagency Agreements and Memoranda**

Topic	Formal Title	Location	Manual Section
Programmatic Categorical Exclusion Approvals	Memorandum of Understanding Between Washington State Department of Transportation and Federal Highway Administration. May 1999.	<a href="#">Exhibit 320-5</a>	
NEPA Categorical Exclusions	Implementing Agreement between WSDOT and Ecology Concerning Adoption of NEPA Documented Categorical Exclusions. June 1996.	<a href="#">Exhibit 320-6</a>	320
NEPA / SEPA merger with Clean Water Act - Section 404	Signatory Agency Committee Agreement to integrate aquatic resources permit requirements into the National Environmental Policy Act and the State Environmental Policy Act processes in the State of Washington, September 2002.	<a href="http://www.wsdot.wa.gov/environment/eao/regcomp/SAC_committee.htm">http://www.wsdot.wa.gov/environment/eao/regcomp/SAC_committee.htm</a>	320, 410, 411, 412, 431, 437
Fugitive Dust	MOA between the Washington State Department of Transportation and the Puget Sound Clean Air Agency Regarding the Control Fugitive Dust from Construction Projects. October 14, 1999.	<a href="#">Exhibit 425-1</a>	425
Surface Water Quality Standards	Implementing Agreement between the Washington State Department of Ecology and the Washington State Department of Transportation Regarding Compliance with the State of Washington Surface Water Quality Standards, February 13, 1998.	<a href="http://www.wsdot.wa.gov/eesc/environmental/&gt;RegulatoryCompliance&gt;Documents&gt;WaterQualityImplementingAgreement">http://www.wsdot.wa.gov/eesc/environmental/&gt;Regulatory Compliance &gt; Documents &gt; Water Quality Implementing Agreement</a>	431, 510, 520
Work in Watercourses	MOU Between Washington State Department of Fish and Wildlife, Washington State Military Department Emergency Management Division, Washington State Association of Counties, Association of Washington Cities, Washington State Department of Ecology, and Washington State Department of Transportation: Concerning Work in Watercourses, December 16, 1996.	<a href="#">Exhibit 431-1</a>	431, 432, 436, 520
COE Permit Process	Working Agreement Between the Seattle District, Corps of Engineers, the Washington Division, Federal Highway Administration, and the Washington State Department of Transportation. July 26, 1993.	<a href="#">Exhibit 431-2</a>	431, 437
Alternative Mitigation Policy – Aquatic Permits	Interagency Agreement - State of Washington Alternative Mitigation Policy Guidance for Aquatic Permitting Requirements from the Departments of Ecology and Fish and Wildlife. February, 10, 2000.	<a href="http://www.wsdot.wa.gov/eesc/environmental/&gt;RegulatoryCompliance&gt;Documents&gt;StateofWashingtonAlternativeMitigationPolicy">http://www.wsdot.wa.gov/eesc/environmental/&gt;Regulatory Compliance &gt; Documents &gt; State of Washington Alternative Mitigation Policy</a>	431, 437

Topic	Formal Title	Location	Manual Section
Hydraulic Code Compliance	MOU Between Washington State Departments of Fisheries, Wildlife, and Transportation, Concerning Compliance With the Hydraulic Code (RCW 75.20.100 and Chapter 220-110 WAC) (August 1990 – revision under review January 22, 2001).	<b>Exhibit 431-3</b> – to be added when revision is approved	431, 436, 520
Sole Source Aquifer	MOU Between the FHWA Region 10, Portland, Oregon, and the USEPA Region 10, Seattle Washington, and WSDOT, Olympia Washington; Sole Source Aquifer, State of Washington, June 1988	<b>Exhibit 433-1</b>	433
Culvert Installations	MOU Between Washington State Departments of Fisheries, Wildlife, and Transportation. Fish Passage Guidelines: Culvert Installations (August 1990).	<b>Exhibit 436-2</b>	436
Wetlands Protection & Management	Implementing Agreement – between the Washington State Department of Transportation and the Washington State Department of Ecology Concerning Wetlands Protection and Management. July 1, 1993.	<b>Exhibit 437-7</b>	437, 510
Wetland Compensation Bank Program	MOA between WSDOT, USEPA, USACOE, USFWS, NMFS, FHWA, Ecology, and WDFW on the Wetland Compensation Bank Program, September 15, 1994, amended October 1998	<a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> > Wetland Banking > WSDOT Memorandum of Agreement <b>Exhibit 437-8</b> – Appendix A and October 1998 Amendment.	437, 510
Noise Analysis and Abatement	Interagency Agreement on FTA-FHWA Sound Transit Noise Analysis and Abatement Policy and Procedures. December 18, 2000.	<b>Exhibit 446-5</b>	446
Hazardous Waste Management	Implementing Agreement between the Department of Ecology and the Department of Transportation Concerning Hazardous Waste Management. April 1993.	<a href="http://www.wsdot.wa.gov/eesc/environmental/">http://www.wsdot.wa.gov/eesc/environmental/</a> > Hazardous Materials > Guidance Documents > MOU ... (May 2000 Draft)	447
U.S. Dept of Transportation Act - Section 4(f) – Wild & Scenic Rivers	Memoranda Between Office of Environmental Policy and FWHA on applicability of Section 4(f) to Wild & Scenic River designations. June 6, 1978 and May 26, 1981.	<a href="http://www.fhwa.dot.gov/environment/">http://www.fhwa.dot.gov/environment/</a> > Environmental Guidebook > Wild & Scenic Rivers	453
Mitigation on Wild & Scenic Rivers	CEQ Memorandum incorporating August 1979 Presidential Directive on avoiding impacts to rivers designated wild, scenic or recreational. October 3, 1980	<a href="http://www.fhwa.dot.gov/environment/">http://www.fhwa.dot.gov/environment/</a> > Environmental Guidebook > Wild & Scenic Rivers	453
Agricultural & Forest Land Preservation	MOU between WSDOT and Washington State Conservation Commission to enhance cooperation in preserving agricultural and forest lands, etc. September 1982.	<b>Exhibit 454-1</b>	454



Topic	Formal Title	Location	Manual Section
Highways over National Forest Lands	MOU between WSDOT, USDA and U.S. Forest Service re coordination of transportation activities over National Forest Lands. June 17, 1991	<a href="http://www.fs.fed.us/im/directives/field/r6pnw/fs/m/1500/1561_9b.doc">http://www.fs.fed.us/im/directives/field/r6pnw/fs/m/1500/1561_9b.doc</a>	455, 470, 520
Historic Properties – Nationwide	National Programmatic Agreement among the Federal Highway Administration (FHWA), National Conference of State Historic Preservation Officers (SHPOs), and the Advisory Council on Historic Preservation (ACHP) for Implementation of Transportation Enhancement Activities. June 11, 1997.	Exhibit 456-2	456
Historic Properties – State	Draft Programmatic Agreement between the Federal Highway Administration, the Washington State Department of Transportation, the Advisory Council on Historic Preservation, and the Washington State Historic Preservation Officer Regarding Implementation of the Federal Aid Highway Program in Washington State. July 2000.	Exhibit 456-3	456



## Environmental Permits and Approvals

Note: Abbreviations are listed at the end of this table; for water quality permits, see details in **Exhibit 431-9**;

National Environmental Policy Act (NEPA)	FHWA and WSDOT	Activities that require federal permits, approvals, or funding trigger NEPA procedural and documentation requirements.	320, 410-480	42 USC 4321 23CFR 771 40 CFR 1500-1508
State Environmental Policy Act (SEPA)	Ecology	Any activity not categorically exempt triggers SEPA procedural and documentation requirements.	410-480	RCW 43.21C WAC 197-11, WAC 468-12
U.S. Dept of Transportation Act - Section 4(f)	FHWA and Affected Agency (WSDOT)	Use of park and recreation lands, wildlife and waterfowl refuges, and historic sites of national, state, or local significance triggers Section 4(f) procedural and documentation requirements.	411, 455	49 USC 1651 Sec. 4 (f) 23 CFR 138
Land and Water Conservations Act - Section 6(f)	FHWA and Affected Agency (WSDOT)	Use of lands purchased with LWCA funds triggers Section 6(f) procedural and documentation requirements.	411, 455	LWCA
Historic Preservations Act - Section 106	OAHP/SHPO	Potential impacts to historic or archaeological properties trigger Section 106 procedural and documentation requirements.	411, 456	16 USC 470 Sec.106 36 CFR 800 RCW 43.51.750
Critical/Sensitive Areas Ordinances	Counties and Cities	Local approval or permits may be required for projects impacting areas defined as "critical" by counties and cities under the GMA, including wetlands, aquifer recharge areas, wellhead protection areas, frequently flooded areas, geographically hazardous areas, fish and wildlife habitat, and conservation areas.	420, 431, 436, 437, 451, 520	RCW 90.58 RCW 36.70A
Clearing, Grading and Building Permits.	Counties / Cities	Clearing and grading of land for development with impacts outside WSDOT right of way; (includes connecting streets, frontage roads, etc.). Construction of any building for human habitation.	420, 451, 454, 460, 520	RCW 36.21.080
Operating Permit for Surface Mining	WDNR, USFS, BLM	Surface mining (pit and quarry sites); more than 3 acres disturbed at one time or pit walls more than 30 feet high and steeper than 1:1; pit site reclamation (WDNR). Borrow pits on federal land may require a permit or easement from the land-management agency.	420, 510	RCW 78.44
Temporary Air Pollution	Ecology, local Clean Air Agencies, fire protection agencies	Pollutants above allowed levels for temporary periods; includes building demolition and brush burning. Regulations may limit the type, size or timing of brush burning.	425	RCW 70.94
New Source Construction	Ecology, Local Clean Air Agencies	Air pollution from a point source (e.g., asphalt plants, rock crushers).	425	RCW 70.94.152

Joint Aquatic Resource Permits Application (JARPA) [Note: JARPA is an application form, not a permit.]	COE, Coast Guard, EPA, WDFW, Ecology, DNR, and local governments.	Joint application for COE Section 10 and Section 404 permits, Coast Guard bridge permits, WDFW Hydraulic Project Approvals, Shoreline Management Permits, approvals for water quality exceedance, Section 401 water quality certifications, and DNR Aquatic Resource Use Authorization.	431, 432, 436, 437, 452, 453	See permits, certificates and approvals included in JARPA.
Rivers and Harbors Act - Section 9 (Bridge)	US Coast Guard	Bridges and causeways in navigable waters, including all tidally influenced streams used by boats over 21 feet in length.	431, 432, 452, 453	33 USC Sec. 9 33 USC 11 33 CFR 114 & 115 FHWA Sec 123(b)
Rivers and Harbors Act - Section 10	COE	Obstruction, alteration, or improvement of any navigable water (e.g., rechanneling, piers, wharves, dolphins, bulkheads, buoys).	431, 432, 452	Rivers & Harbors Act, Section 10 33 CFR 403
Hydraulic Project Approval	WDFW	Projects that will use, divert, obstruct, or change the natural flow or bed of any state waters (e.g., culvert work, realignment, bridge replacement).	431, 432, 436, 447, 452, 453, 510, 520	RCW 77.55.100 WAC 220-110
Clean Water Act - Section 401 Water Quality Certification	Ecology USEPA (federal and tribal lands)	Activity requiring a federal permit/license for discharge into navigable waters.	431, 432, 437, 452, 453	CWA Sec 401 RCW 90.48.260 WAC 173-225
Clean Water Act - Section 402 NPDES Permit	Ecology	Discharge of pollutants into state waters, including wetlands and groundwater. Municipal Stormwater Discharge, Industrial Stormwater, Construction Stormwater, or Sand/Gravel permits may be required, depending on the activity.	431, 433	CWA Sec 402 WAC 173-226
Clean Water Act - Section 404 Individual and Nationwide Permits	COE, USEPA, US Coast Guard	Discharging, dredging, or placing fill material within waters of the US or adjacent wetlands.	431, 432, 437, 452, 510	CWA Sec 404 33 USC 1344 33 CFR 330.5 & 330.6
State Waste Discharge (SWD) Permit	Ecology	Discharge or disposal of municipal and industrial wastewater into groundwater, or discharge industrial wastewater to an NPDES-permitted wastewater treatment plant.	433	RCW 90.48, WAC 173-226
Easement over Navigable Water	WDNR Harbor line commission	Rights of way or fills on, over, or across beds of navigable waters. If waters are part of harbor area, easements may also needed from harbor line commission.	431, 432, 451	RCW 47.12.026
Sewage Facilities	DOH Ecology	Construction/modification of domestic/industrial wastewater facilities (e.g., sewer relocation, rest area construction). Systems with design flow capacity of 3500-14500 gallons per day are regulated by DOH. Industrial systems (i.e., rest areas) with design flow capacity >14500 gallons per day are regulated by Ecology.	431, 432, 433	RCW 90.48.110 WAC 246-272 WAC 173-240
Short-Term Water Quality Modification	Ecology	Activity resulting in temporary minor increase in turbidity.	431, 432, 447, 452, 453	WAC 173-201A-110(3)
NPDES – herbicide use.	Ecology	Application of herbicides to control noxious or non-noxious weeds.	431, 432, 437, 510	RCW 90.48, WAC 173-201A-110

Coastal Zone Management Certificate	Ecology	Applicants for federal permits/licenses are required to certify that the activity will comply with the state's Coastal Zone Management program (Shoreline Management Act).	<a href="#">431, 432, 437, 452, 520</a>	CZMA Sec 6217 16 USC 1451 et seq. 15 CFR 923-930 RCW 90.58
Shoreline Permits	Ecology Cities and Counties	Development or construction valued at \$2,500 or more interfering with shorelines or water use; lakes & reservoirs over 20 acres, streams over 20 cfs, lands 200 ft inland from OHWM, marshes, swamps, bogs & deltas.	<a href="#">431, 432, 437, 447, 452, 453, 520</a>	RCW 90.58 WAC 173-14 through 173-28
Floodplain Development Permit	Ecology Counties and Cities	Any structure or activity that may adversely affect the flood regime of streams within the flood zone.	<a href="#">432</a>	RCW 86.16 WAC 173-158
Water Rights Permit	Ecology (Water Resources Program) City or county	Appropriation of a specific amount of public ground water or surface water for a specific beneficial purpose.	<a href="#">433</a>	RCW 18.104, 43.27A, 90.03, 90.14, 90.16, 90.44 and 90.54 WAC 173-100, 173-136, 173-150, 173-154, 173-166, 173-500 and 173-590,– and 508-12
Water System Project Approval	DOH City or county health departments	Any project with two or more water service connections for human consumption and domestic use.	<a href="#">433</a>	RCW 43.20A WAC 246-290, 246-291 and 246-293.
Underground Injection Control	Ecology	Injection well that may contaminate drinking water.	<a href="#">433</a>	40 CFR 144 RCW 43-21A.44 WAC 173-218
Threatened and Endangered Species	USFWS/NMFS	Projects affecting critical habitat of species listed under the ESA may be subject to water quality and wetland permits listed in <a href="#">Section 431.06</a> and <a href="#">Section 437.06</a> .	<a href="#">436, 447, 510, 520</a>	16 USC 1531-1543
Fish Habitat Enhancement Project Application	WDFW	Streamlined process for projects designed to enhance fish habitat. Application is in addition to JARPA.	<a href="#">436</a>	
Aquatic Resource Use Authorization	WDNR	Included in JARPA.	<a href="#">436, 437, 520</a>	RCW 79.90 WAC 332-30
Wetlands Report	COE	Impact to lowlands covered with shallow and sometimes temporary/intermittent waters (e.g., swamps, marshes, bogs, sloughs, potholes).	<a href="#">437</a>	49 USC 1651 EO 11990 (Protection of Wetlands)
Noise Permit	Counties / Cities	Construction and maintenance activities during nighttime hours may require a variance from local noise ordinances. Daytime noise from construction is usually exempt.	<a href="#">446</a>	WAC 173-60
Hazardous Waste Tracking Form	Ecology	A WAD tracking number from Ecology is required for transport, storage, transport, or disposal of dangerous waste.	<a href="#">447</a>	WAC 173-303
Monument Removal	WDNR	Removal or destruction of a monument.	<a href="#">451</a>	

Wild and Scenic Rivers	FHWA and Affected Agency	No specific permits are required for projects in wild and/or scenic river corridors, but water quality permits listed in <a href="#">Section 431.06</a> may apply.	<a href="#">453</a>	16 USC 1271
Farmland conversion	NRCS Counties/cities	NRCS Form AD1006 approval may be required if project entails conversion of farmlands. Local grading permits may also be required.	<a href="#">454</a>	7 USC 4201 7 CFR 650
Forest Practices Application	WDNR	Road construction, pits, pesticide use, and other specified activities on public or private forest land (i.e., land capable of supporting merchantable timber).	<a href="#">455</a>	RCW 76.09 WAC 222
Archeological Resources Protection Permit	Tribes Federal landowners, e.g. BLM, COE, NPS	Excavation or removal of archeological resources from tribal or federal land.	<a href="#">456</a>	43 CFR 7.6 – 7.11
Airport/Highway Clearance	FAA (Federal)	Airspace intrusion by a highway facility (i.e. proposed construction in the vicinity of public use or military airports) may require FAA notification.	<a href="#">460</a>	FHPM 6-1-1-2 FAA Regs. p.77

#### Abbreviations:

BLM Bureau of Land Management (Federal)  
CFR Code of Federal Regulations  
COE US Army Corps of Engineers  
CWA Clean Water Act  
CZMA Coastal Zone Management Act (Federal)  
DOH Washington Department of Health  
DSHS Washington Dept. of Social and Health Services  
Ecology Washington Department of Ecology  
EO Executive Order  
ESA Endangered Species Act (Federal)  
FAA Federal Aviation Authority  
FACA Federal Action Community Act  
FHWA Federal Highway Administration  
FRA Federal Railroad Administration  
FWCA Fish and Wildlife Coordination Act (Federal)  
WPCA Water Pollution Control Act (Federal)  
GMA Growth Management Act (State)  
HPA Hydraulic Project Approval  
JARPA Joint Aquatic Resource Permits Application  
LWCA Land and Water Conservation Act (Federal)  
NEPA National Environmental Policy Act

NMFS National Marine Fisheries Service (Dept. of Commerce)  
NPDES National Pollutant Discharge Elimination System  
NPS National Park Service  
NRCS Natural Resources Conservation Service (US Dept. of Agriculture)  
OAHP Office of Archaeology and Historic Preservation (State)  
RCW Revised Code of Washington  
ROW Right of Way  
SDWA Safe Drinking Water Act (Federal)  
SEPA State Environmental Policy Act  
SHPO State Historic Preservation Officer  
SMA Shoreline Management Act (State)  
USC United States Code  
USEPA U.S. Environmental Protection Agency  
USFW U.S. Forest Service  
USFWS U.S. Fish & Wildlife Service (Dept. of Interior)  
WAC Washington Administration Code  
WAD Dangerous Waste Identification Number  
WDFW Washington Department of Fish and Wildlife  
WDNR Washington Department of Natural Resources



### **Environmental Affairs Office**

EAO – 360-705-7483  
Regulatory Compliance Managers – 360-705-7448 / 7126  
Planning/Programming Manager – 360-705 7476  
Watershed Manager – 360-705-7493  
Biology Manager – 360-705-7406  
Cultural Manager – 360-570-6637  
Hazardous Material Manager – 360-570-6656  
Water Quality Manager – 360-570-6655  
Wetlands Manager – 360-705-7518

### **Environmental Managers**

#### ***Regional Offices***

Eastern Region – 509-324-6131  
North Central Region – 509-667-3055  
South Central Region – 509-577-1750  
North West Region – 206-440-4548  
North West Region – 206-440-4960  
Olympic Region – 360-357-2660  
South West Region – 360-905-2174

#### ***Olympia Service Center and Others***

FOSSC, WSDOT Highway Maintenance – 360-705-7812  
Rails – 360-705-7902  
Washington State Ferries – 206-515-3650  
Noise/Air/Acoustics Manager – 206-440-4541

### **Design Services Managers**

#### ***Regional Offices***

Eastern Region – 509-324-6100  
North Central Region – 509-667-3041  
South Central Region – 509-577-1703  
North West Region – 206-440-4664  
Olympic Region – 360-357-2680  
South West Region – 360-905-2171



### ***Olympia Service Center***

State Design Engineer – 360-705-7231  
Roadside and Site Development – 360-705-7242  
Hydraulic – 360-705-7259

## **Planning Managers**

### ***Regional Offices***

Eastern Region – 509-324-6195  
North Central Region – 509-667-2901  
South Central Region – 509-454-7618  
North West Region – 206-440-4727  
Olympic Region – 360-357-2630  
South West Region – 360-905-2051

### ***Olympia Service Center***

Transportation Planning – 360-705-7958

## **Highway and Local Program Managers**

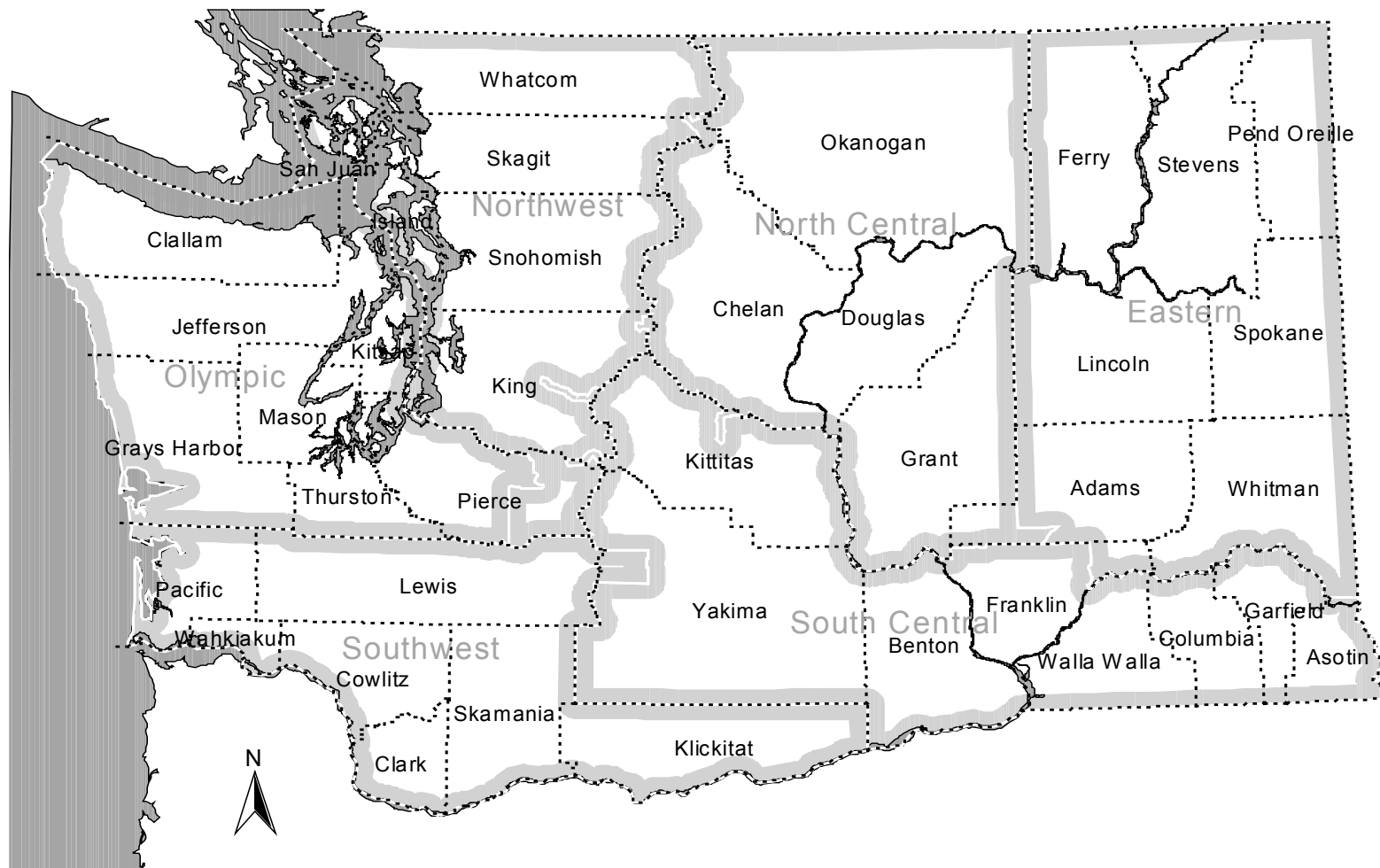
### ***Regional Offices***

Eastern Region – 509-324-6080  
Assistant – 509-324-6081  
North Central Region – 509-667-3090  
Assistant – 509-667-3091  
South Central Region – 509-575-2580  
Assistant – 509-577-1781  
North West Region – 206-440-4734  
Assistant – 206-440-4734  
Assistant – 206-440-4736  
Olympic Region – 360-357-2666  
Assistant – 360-357-2712  
Assistant – 360-357-2613  
South West Region – 360-905-2215  
Assistant – 360-905-2216  
Assistant – 360-905-2216

### ***Olympia Service Center***

Highway and Local Programs – 360-705-6975  
Bicycle/Pedestrian – 360-705-7258  
Heritage Corridors – 360-705-7274

## ***WSDOT Regions***



# **PROCESS IMPROVEMENT SUGGESTION FORM**

## **Environmental Procedures Manual, M 31-11**

Please submit your process improvement suggestion by mail or e-mail to:

**WSDOT Environmental Affairs Office**  
P.O. Box 47408  
Olympia, Washington 98504-7310  
Attention: EPM Revision

Use the reverse side of this form, attach a separate sheet of paper, or send via e-mail. Clearly state your suggestion and the reasons why it would be an improvement.

Please provide the following information with your suggestion:

Date Submitted	
Your Name	
Your Organization	
Your Work Address/Mail Stop	
City and Zip Code	
Your Work Phone Number	
Title of the Manual Chapter	
Page number(s)	

We will contact you to be sure we clearly understand your suggestion, and we will keep you informed on how your suggestion will be handled.

### **Response**

Attached is the outcome of our evaluation and an explanation of how we will, or why we will not, implement your suggestion.

Date of Response	
Evaluator's Name	
Evaluator's Telephone Number	
Evaluator's Signature	
Approved by (EAO Manager's Signature)	